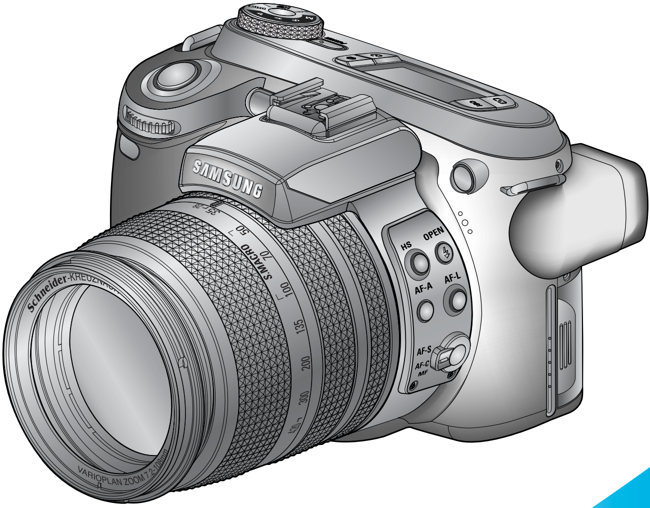

Pro 815

User's Manual

Thank you for buying a Samsung Camera.
This manual will guide you through using the camera, including capturing images, downloading images and using the application software.
Please read this manual carefully before using your new camera.

ENGLISH

Instructions

- Use this camera in the following order

Set up the camera driver	Before connecting the camera to a PC, via the USB cable, you will need to set up the camera driver. Install the camera driver that is contained in Application software CD-ROM. (p.138) ※ To play back the movie clip on a PC, DirectX 9.0 or later must be installed. (p.138)
Take a picture	Take a picture. (p.29)
Insert the USB cable	Insert the supplied USB cable into the PC's USB port and the camera's USB connection terminal. (p.144)
Check the camera's power	Check the camera's power. If the power is turned off, press the camera button to turn it on.
Check [Removable Disk]	Open Window's EXPLORER and search for [Removable Disk]. (p.145)

- If you use a card reader to copy the images on the memory card to your PC, the images could be damaged. When transferring the images taken with the camera to your PC, be sure to use the supplied USB cable to connect the camera to your PC. Please note that the manufacturer holds no responsibility for loss or damage of images on the memory card due to the use of a card reader.

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Getting to know your camera

Thank you for buying a Samsung Digital Camera.

- Prior to using this camera, please read the user manual thoroughly.
- When you require After Sales service, please bring the camera and the cause of the camera malfunction (such as battery, Memory card etc.) to the A/S centre.
- Please check that the camera is operating properly prior to when you intend to use it (e.g. for a trip or an important event) to avoid disappointment. Samsung camera takes no responsibility for any loss or damages that may result from camera malfunction.
- Keep the manual in a safe place.

∗ Microsoft, Windows and Windows logo are registered trademarks of Microsoft Corporation incorporated in the United States and/or other countries.
∗ CompactFlash logo is registered trademarks of SanDisk Corporation.
∗ All brand and product names appearing in this manual are registered trademarks of their respective companies.

This manual contains instructions on using this camera that will help you to use this camera safely and correctly. This will help prevent danger and injury to others.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a potentially hazardous situation, which, if not avoided, may result in a minor or moderate injury.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)
(Applicable in the European Union and other European countries with separate collection systems) This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract.
This product should not be mixed with other commercial wastes for disposal.

Danger

- Do not attempt to modify this camera in any way. This may result in fire, injury, electric shock or severe damage to you or your camera. Internal inspection, maintenance and repairs should be carried out by your dealer or Samsung Camera Service centre.
- Please do not use this product in close proximity to flammable or explosive gases, as this could increase the risk of explosion.
- Should any form of liquid or a foreign object enter the camera, do not use it. Switch off the camera, and then disconnect the power source (batteries or AC Power Adapter).
  You must contact your dealer or Samsung Camera Service centre. Do not continue to use the camera as this may cause a fire or electric shock.
- Do not insert or drop metallic or inflammable foreign objects into the camera through access points e.g. the memory card slot and battery chamber. This may cause a fire or electric shock.
- Do not operate this camera with wet hands. This could pose a risk of electric shock.

DANGER

Warning

- Do not use the flash in close proximity to people or animals. Positioning the flash too close to your subject's eyes, may cause eyesight damage.
- When taking photographs, never point the lens of the camera directly into very strong light. This may result in permanent damage to your eyesight.
- For safety reasons keep this product and accessories out of reach of children or animals to prevent accidents e.g.:
  - Swallowing batteries or small camera accessories. If an accident should occur, please consult a doctor immediately.
  - There is the possibility of injury from the camera's moving parts.
- Batteries and camera may become hot during prolonged use and it may result in camera malfunction. Should this be the case, allow the camera to sit idle for a few minutes to allow it time to cool.
- Do not recharge non rechargeable batteries. This may cause an explosion.
- Do not leave this camera in places subject to extremely high temperatures, such as a sealed vehicle, direct sunlight or other places of extreme variances in temperature.
  Exposure to extreme temperatures may adversely affect the camera' s internal components and could cause a fire.
- When in use, do not cover the camera or AC Power Adapter. This may cause heat to build up and distort the camera body or cause a fire. Always use the camera and its accessories in a well-ventilated area.

WARNING

Caution

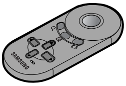
- Leaking, overheating, or burst batteries could result in fire or injury.
  - Use batteries with the correct specification for the camera.
  - Do not short circuit, heat or dispose of battery in fire.
  - Do not insert the batteries with the reverse polarities.
- Remove the batteries when not planning to use the camera for a long period of time. Batteries may leak corrosive electrolyte and permanently damage the camera's components.
- Do not fire the flash while it is in contact with hands or objects. Do not touch the flash after using it continuously. It may cause burns.
- If you are using the AC power adaptor be careful when moving the camera. After use, always switch off the camera before unplugging the adapter from the wall socket. Then make sure that any connector cords or cables to other devices are disconnected before moving the camera. Failure to do so may damage the cords or cables and cause a fire or electric shock.
- The Lens is attached to the camera body. Do not drop or press the lens by force. It may cause a camera malfunction.
- Do not pull the lens by hand or do not rotate the zoom ring quickly. It may cause a camera malfunction. Please be careful when using the lens.
- Do not extract the external flash from the camera by force. It may cause damage to the top of the camera.

CAUTION

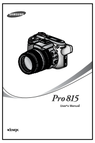
System chart

Please check that you have the correct contents before using this product. To buy the optional equipment, contact your nearest Samsung dealer or Samsung service centre.

Camera case


Remote control

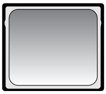
< Included items >

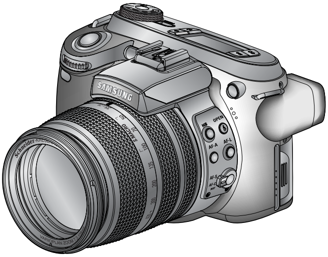

SAMSUNG
Pro 815
User's Manual
User manual, Warranty card

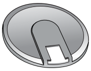
Camera strap

Pro 815
Software CD-ROM
SAMSUNG
Software (p.137)

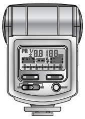
DPOF compatible printer (see p.103)

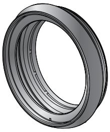

CF (CompactFlash) card (p.20)

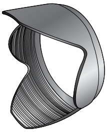

SAMSUNG
Pro 815

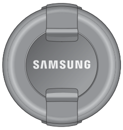

Flash plate

+


Exclusive bounce flash


Lens adapter


Lens hood



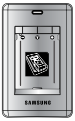
Lens cap

AC adapter

+

AC cord

+

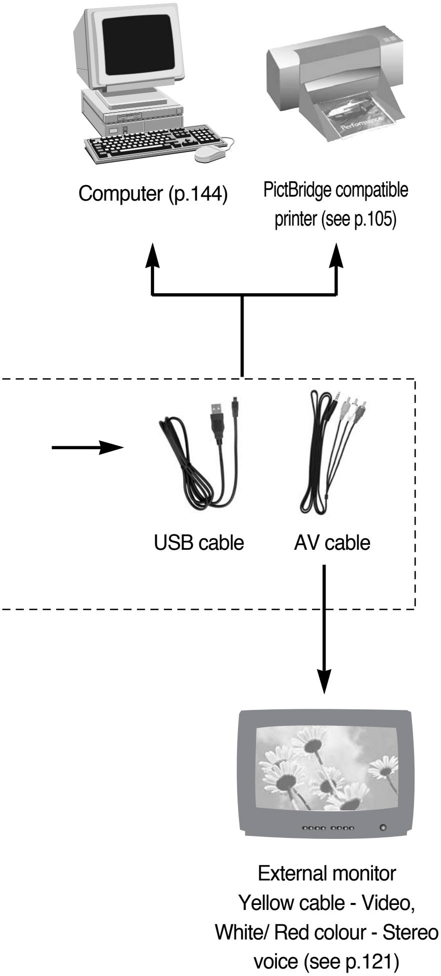


Battery charger

+

Rechargeable battery (SLB-1974)

System chart


Computer (p.144)
PictBridge compatible printer (see p.105)
USB cable
AV cable
External monitor
Yellow cable - Video,
White/ Red colour - Stereo
voice (see p.121)

System Requirements

For Windows

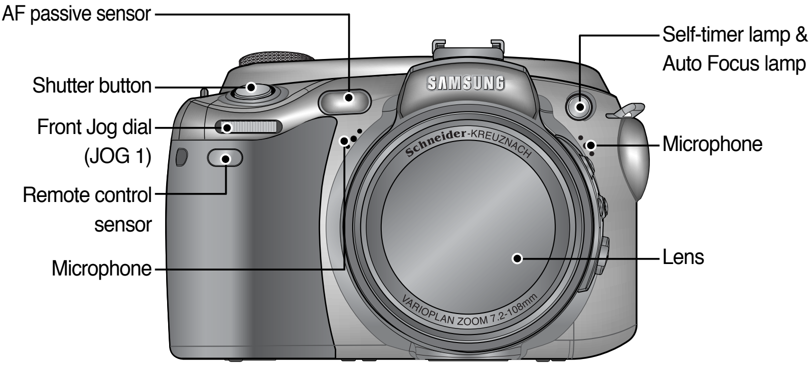
- PC with processor better than Pentium II 450MHz (Pentium 700MHz or better is recommended)
- Windows 98/ 98SE/ 2000/ ME/ XP
- Minimum 64MB RAM (XP : 128MB)
- 200MB of available hard-disk space (Over 1GB is recommended)
- USB port
- CD-ROM drive
- 1024x768 pixels, 16-bit colour display compatible monitor (24-bit colour display recommended)
- DirectX 9.0 or later

For Macintosh

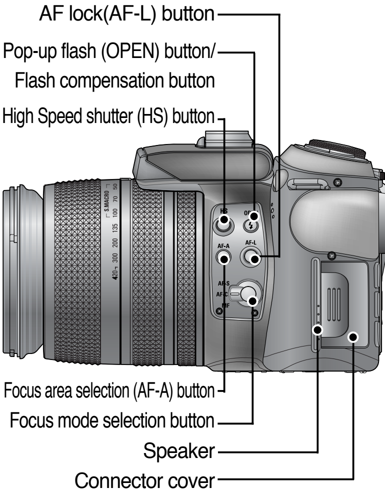
- Power Mac G3 or later
- Mac OS 10.0 or later
- Minimum 64MB RAM
- 110MB of available hard-disk space
- USB port
- CD-ROM drive

Identification of features

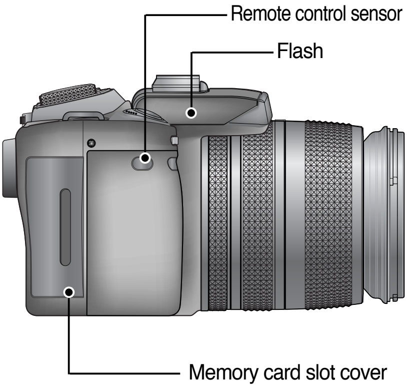
Front


AF passive sensor
Shutter button
Front Jog dial (JOG 1)
Remote control sensor
Microphone
Self-timer lamp & Auto Focus lamp
Microphone
Lens
SAMSUNG
Schneider-KREUZNACH
VARIOPLAN ZOOM 7.2-108mm

Side (Left/ Right)

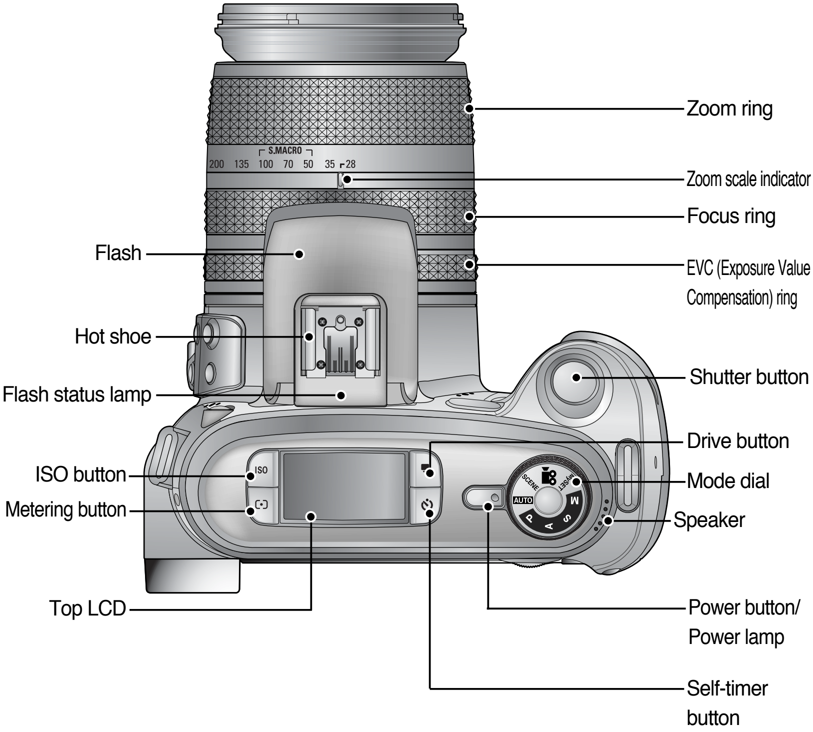

AF lock(AF-L) button
Pop-up flash (OPEN) button/ Flash compensation button
High Speed shutter (HS) button
Focus area selection (AF-A) button
Focus mode selection button
Speaker
Connector cover
HS
OPEN
AF-A
AF-L
AF-S
AF-C
MF
S.MACRO
50
70
100
135
200
300
420

Side (Left)

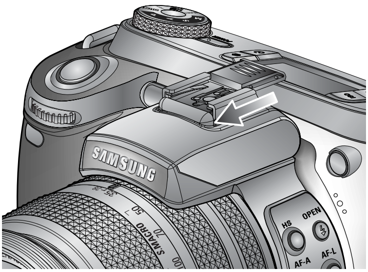

Remote control sensor
Flash
Memory card slot cover

Side (Right)

Top

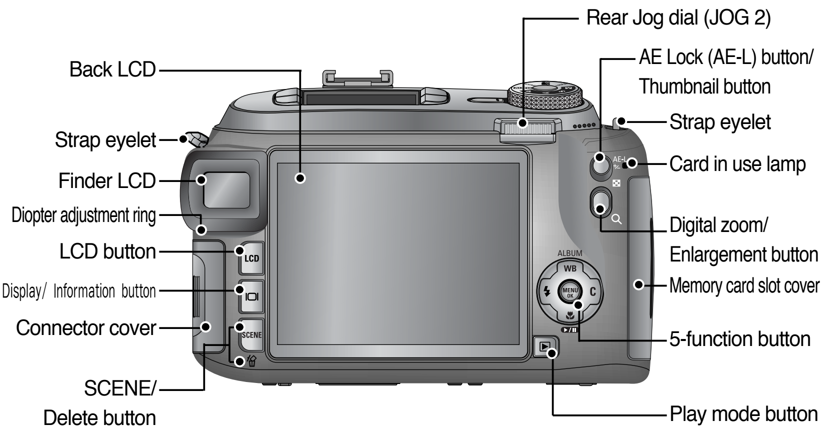

Zoom ring
Zoom scale indicator
Focus ring
EVC (Exposure Value Compensation) ring
Flash
Hot shoe
Flash status lamp
Shutter button
Drive button
Mode dial
Speaker
ISO button
Metering button
Top LCD
Power button/ Power lamp
Self-timer button
S.MACRO
200 135 100 70 50 35 28
ISO
SCENE
MySET
AUTO
P
A
S
M

Hot shoe cap

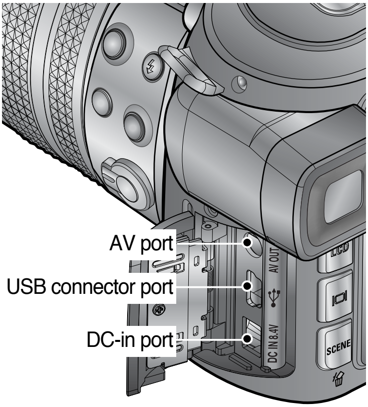

SAMSUNG
S.MACRO
HS
OPEN
AF-A
AF-L

Identification of features

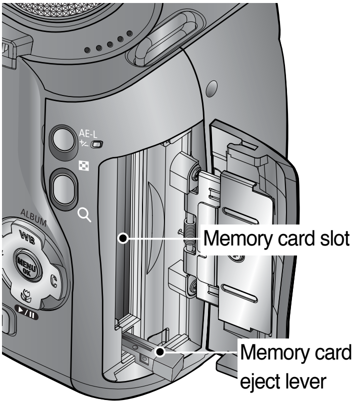
Back


Rear Jog dial (JOG 2)
AE Lock (AE-L) button/
Thumbnail button
Strap eyelet
Card in use lamp
Digital zoom/
Enlargement button
Memory card slot cover
5-function button
Play mode button
Back LCD
Strap eyelet
Finder LCD
Diopter adjustment ring
LCD button
Display/ Information button
Connector cover
SCENE/
Delete button
LCD
SCENE
ALBUM
WB
MENU
OK
C
AE-L

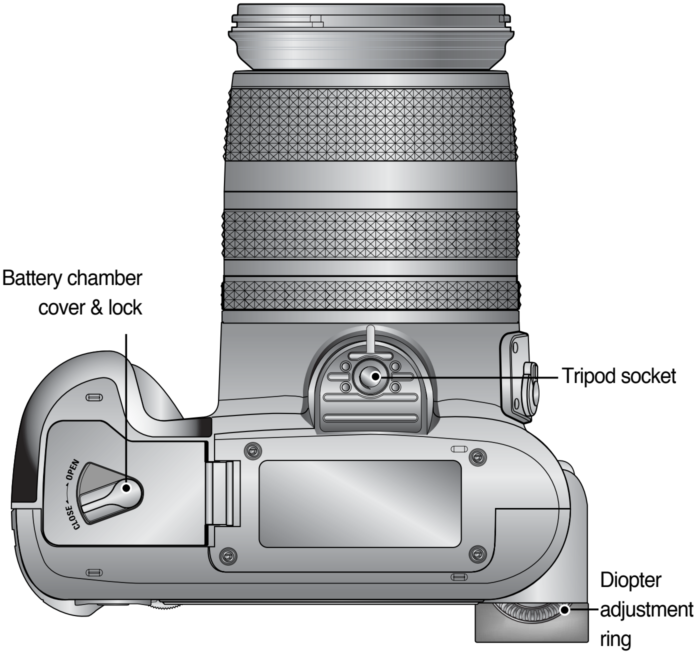
Connectors


AV port
USB connector port
DC-in port
AV OUT
DC IN 8.4V
LCD
SCENE

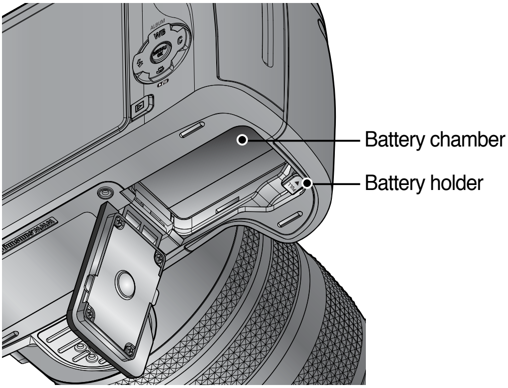
Memory card slot


Memory card slot
Memory card
eject lever
AE-L
ALBUM
WB
MENU
OK
C

Bottom


Battery chamber
cover & lock
OPEN
CLOSE
Tripod socket
Diopter
adjustment
ring

Battery chamber


Battery chamber
Battery holder

Identification of features

■ Self-timer lamp

Icon	Status	Description
⏱2 2	Blinking	For 2 seconds, the lamp blinks quickly at 0.25-second intervals.
⏱10	Blinking	- For the first 7 seconds, the lamp blinks at 1 second intervals. - For the final 3 seconds, the lamp blinks quickly at 0.25-second intervals.
⏱10 2	Blinking	A picture will be taken after about 10 seconds and 2 seconds later a second picture will be taken.

■ Camera Status Lamp

Lamp	Colour	Status	Description
Power lamp	Green	On	Power on
		Blinking	When the LCD is turned off
Flash status lamp	Red	On	Charging is complete (Pressing the shutter button half way down)
		Blinking	The flash is being charged
Card in use lamp	Red	Blinking	When the memory card is being used PC mode - When the data is transmitting - When the USB cable is connected

■ Mode icon

Mode	AUTO	PROGRAM	A priority	S priority	MANUAL	MySET	MOVIE CLIP
Icon	📷	P	A	S	M	My	🎥

Mode	NIGHT	PORTRAIT	CHILDREN	LANDSCAPE	CLOSE-UP	TEXT	SUNSET	DAWN	BACKLIGHT	FIREWORKS	BEACH & SNOW
Icon	☾	👤	👤	▲	✿	▤	◒	☀	👤	✺	☃

Before using the camera

Connecting to a Power Source

- There are two ways in which to provide the camera with power. You can use battery or alternatively, you can use the AC adaptor.

- Specification of SLB-1974 rechargeable battery

Model	SLB-1974
Type	Lithium Ion
Voltage, Capacity	7.4V, 1900mAh
Charging time	Approx. 180MIN (Using the SBC-L4)

※ To buy the exclusive AC adapter (SAC-81, DC 8.4V 1.5A), contact your nearest Samsung dealer or Samsung service centre.

CAUTION

- ● Please ensure that you use the exclusive battery with the correct specification for the camera. Failure to do may affect your warranty.
- ● When you disconnect the AC adapter or remove the battery, turn off the camera power first. The data can be damaged.

- Number of images and battery life

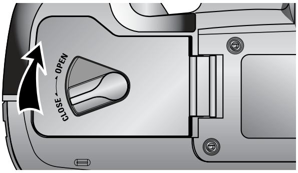
Still image		Movie
Battery life	Number of images	Recording time
Approx. 225MIN	Approx. 450	Approx. 225MIN

Based on the following shooting conditions		Based on the following shooting conditions	
	Using the fully charged battery Auto mode, 8M image size Fine image quality, Shot to shot interval : 30Sec. Changing the zoom position between the Wide and the Tele ends every 1 shot. Using the flash every two times.		Using the fully charged battery 640X480 image size 15fps frame rate

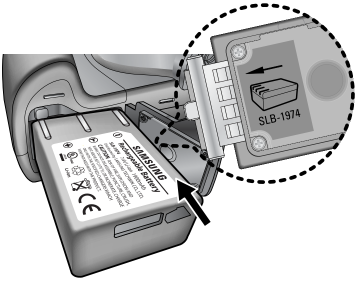
※ These figures are measured under Samsung's standard conditions and Shooting conditions and may vary depending on the way of user's usage.

Using the battery

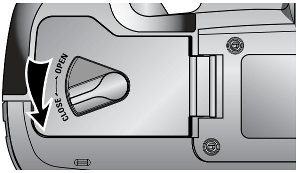
: If the camera does not turn on after you have inserted battery, please check whether the battery is inserted with the correct polarity (+/-).



1. Turn the battery chamber lock in the direction of the arrow (OPEN) and open the battery chamber cover.


SLB-1974
SAMSUNG
Rechargeable Battery

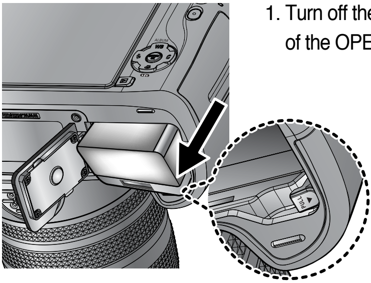
2. Insert the battery taking note of the polarity (+/-).



3. Close the battery chamber cover and turn the battery chamber lock in the direction of the arrow (CLOSE).

Before using the camera

Removing the battery



1. Turn off the camera. Turn the battery chamber lock in the direction of the OPEN mark and open the battery chamber cover.

2. Move the battery holder aside and the battery will be released.

3. Take out the battery and close the battery chamber cover. Turn the battery chamber lock in the direction of the CLOSE mark.

■ There are 4 indicators for battery condition that are displayed on the LCD monitor.

Battery indicator	▮▮▮	▮▮	▮	▯
Battery status	The battery is fully charged	Prepare new battery	There is low battery capacity (Warning indicator will display).	There is no battery capacity (Red colour : Change the battery).

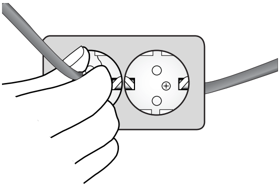
INFORMATION

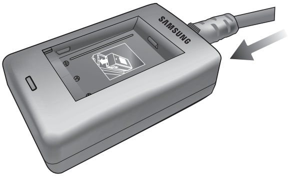
Important information about battery usage.

- When the camera is not used, turn off the camera power.
- Please remove the battery if the camera will not be used for long periods. The battery can lose power over time and are prone to leaking if kept inside the camera.
- Low temperatures (below 0°C) can affect the performance of the battery and you may experience reduced battery life.
- The battery will usually recover at normal temperatures.
- During extended use of the camera, the camera body may become warm. This is perfectly normal.
- If the battery has low capacity, the camera power will not be turned on. In this case, change the battery with a new one.

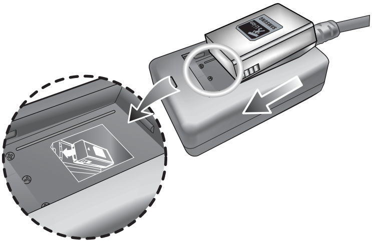
- How to charge the rechargeable battery

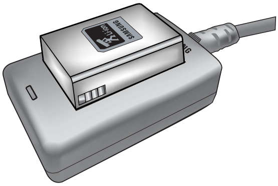
1. Plug the AC cord’s power plug into the wall outlet and insert the AC cord into the charger.





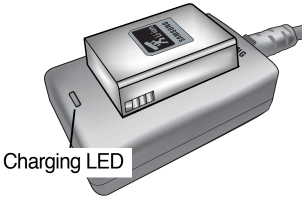
2. Place the battery in the charger as shown.





※ If the charging LED doesn’t blink as red or blinks as yellow, please check whether the battery is inserted with the correct polarity (+/-).

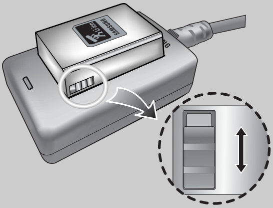
※ Check the battery charging status with the Charging LED of the charger.



Status	LED
Being charged	Red LED is on
Charging is complete	Green LED is on
Charging is paused	Yellow LED is on
Charging error	Yellow LED is blinking

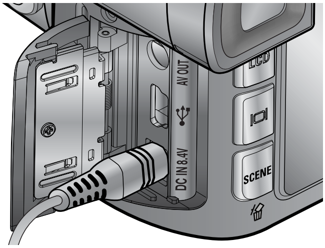
Before using the camera

INFORMATION

- The proper operating temperature of the charger is 0°C ~ 40°C. When you charge the battery under/over the proper operating temperature, the charger may not operate (Yellow LED is on). Charging will restart at the operating temperature and this is not camera malfunction.
- Samsung warrants the charger for a period of one year and the Lithium Ion battery for a period of six months from the original date of purchase of the product.
- Wear and tear on the lithium battery is not covered by the Samsung warranty.
  If the battery duration shortens considerably, you should purchase a new battery.
- 

  Slide the switch as you please to indicate something like flash charging status.
  This switch has yellow and black mark.

AC adapter (SAC-81, DC 8.4V)



If you have access to a mains supply, using an AC Adapter (SAC-81, DC 8.4V) allows the camera to be used for long periods of time.
Remove the battery from the camera when using an AC adapter. Plug the adapter into the DC-IN port on the camera before using an AC adaptor.

DANGER

- Always turn off the power before taking the AC adapter out of the mains supply.
- As with all mains powered devices, safety is important. Ensure that neither the camera nor adapter comes into contact with water or metallic materials.
- Please ensure that you use an AC adapter (SAC-81, DC 8.4V) with the correct specification for the camera. Failure to do so may affect your warranty.

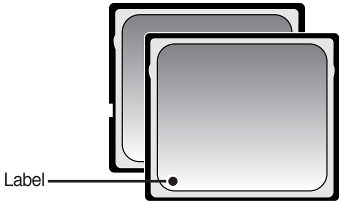
Instructions on how to use the memory card

- Be sure to format the memory card (see p.116) if you are using a newly purchased memory for the first time, if it contains data that the camera cannot recognise, or if it contains images captured with a different camera.
- Turn off the camera power whenever the memory card is being inserted or removed.
- Repeated use of the memory card will eventually reduce the memory card's performance. Should this be the case, you will need to purchase a new memory card. Wear and tear on the memory card is not covered by the Samsung warranty.
- The memory card is an electronic precision device.
  Do not bend, drop or subject the memory card to any heavy impact.
- Do not store the memory card in an environment with strong electronic or magnetic fields, e.g. near loud speakers or TV receivers.
- Please do not use or store in an environment where there are extremes in temperature.
- Please keep the memory card in its case when not in use.
- During and after periods of extended use, you may notice that the memory card is warm. This is perfectly normal.
- Do not use a memory card that is used in another digital camera.
  To use the memory card in this camera, first format the memory card by using the camera.
- Do not use a memory card formatted by another digital camera or memory card reader.
- If the memory card is subjected to any of the following, the recorded data may become corrupted:
  - When the memory card is used incorrectly.
  - If the power is switched off or the memory card is removed while recording, deleting/ formattting or reading.
- Samsung cannot be held responsible for lost data.
- It is advisable to copy important data onto other media as back-up e.g. floppy disks, hard disks, CD etc.
- If there is insufficient memory available
  : A [Card Full!] message will appear and the camera will not operate. To optimise the amount of memory in the camera, replace the memory card or delete unnecessary images stored on the memory.
- If you use a low writing speed memory card, the movie clip may be stopped while recording. We recommend a high writing speed memory card (over 40X writing speed).

INFORMATION

- When the memory card slot cover opens, the camera can't be turned on by pressing the power button.
- Don't remove the memory card when the Card in use lamp is blinking as this may cause damage to data in the memory card.
- If the memory card slot cover is opened while data is being saved, a warning alarm sounds and the camera power is turned off after saving the data.

- The camera can use CF (CompactFlash) I and II type card.



Some CF I and II type cards are not compatible with this camera. We recommend a same kind of CF I and II type card provided with this camera.

【 CF (CompactFlash) I and II type memory card 】

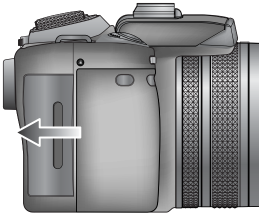
- When using a 64MB memory, the specified shooting capacity will be as follows. These figures are approximate as image capacities can be affected by variables such as subject matter.

Recorded image size		RAW	TIFF	S.FINE	FINE	NORMAL	25FPS	15FPS
Still image	3264X2448	3	2	15	29	42	-	-
	3264X2176	-	-	17	32	46	-	-
	3264X1840	-	-	20	38	54	-	-
	2400X1800	-	-	27	50	71	-	-
	1632X1224	-	-	54	94	124	-	-
	1024X768	-	-	111	169	205	-	-
	640X480	-	-	292	450	548	-	-
Movie clip	640X480	-	-	-	-	-	1Min. 10Sec.	1Min. 57Sec.
	320X240	-	-	-	-	-	3Min. 31Sec.	5Min. 51Sec.
	160X120	-	-	-	-	-	8Min. 12Sec.	13Min. 41Sec.

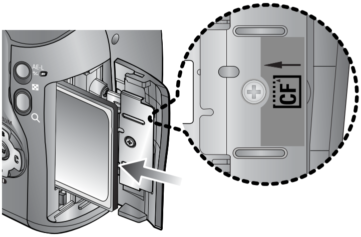
Before using the camera

Inserting the memory card

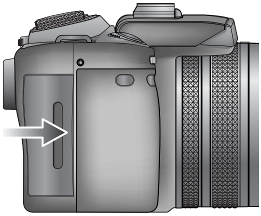
1. Ensure the camera is off and pull the memory card slot cover in the direction of the arrow to open.



2. Insert the memory card as shown on the memory slot cover.



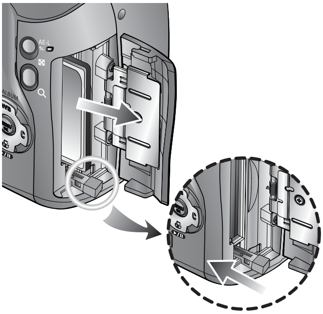
3. To close, push the memory card slot cover until you hear a click.
   If the memory card does not slide in smoothly, do not attempt to insert it by force. Check the direction of insertion, and then insert it correctly. Do not insert the memory card the wrong way round. Doing so may damage the memory card slot.



Removing the memory card

1. Turn off the camera power by using the power button. Open the memory card slot cover.
   Press the memory card eject lever and the lever will pop up. Press the lever again and then the memory card will be released.

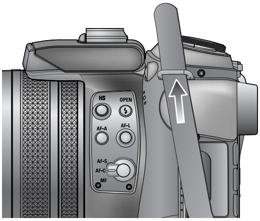
2. Remove the memory card and close the memory card slot cover.



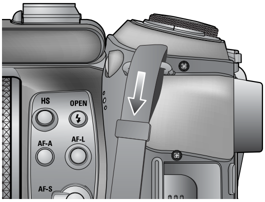
Before using the camera

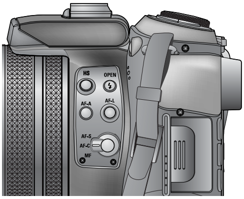
Attaching the strap

1. Thread the strap through the strap eyelet on the camera as shown alongside.

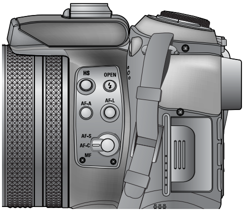

HS
OPEN
AF-A
AF-L
AF-S
AF-C
MF

2. Thread the strap back through the strap ring as shown alongside.


HS
OPEN
AF-A
AF-L
AF-S


HS
OPEN
AF-A
AF-L
AF-S
AF-C
MF

3. Fasten the strap as shown.


HS
OPEN
AF-A
AF-L
AF-S
AF-C
MF

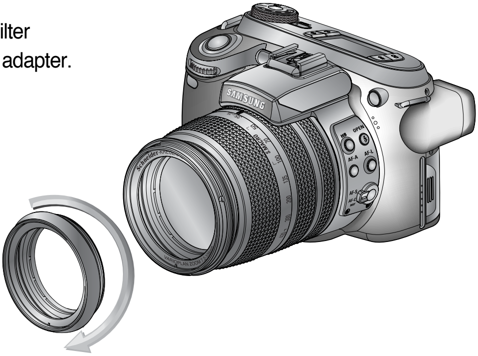
4. Repeat steps 1 ~ 3 to attach the other end of the strap to the other eyelet.

Attaching the lens hood

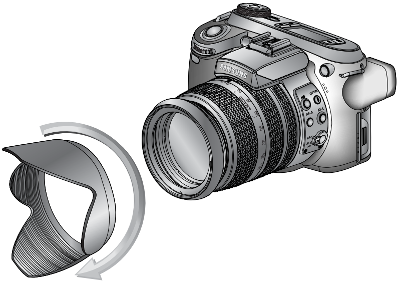
- When you shoot in direct or bright lighting conditions, the image quality may be deteriorated caused by unnecessary light. In this case, use the lens hood.

1. Attach the lens adapter to the camera by turning the lens adapter clockwise as shown alongside.

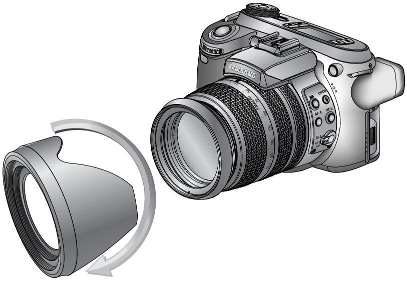
※ You can use a general purpose filter (φ72mm) after attaching the lens adapter.



2. Attach the lens hood by turning it clockwise.



[Using the lens hood]

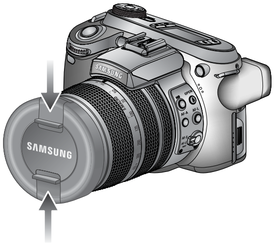


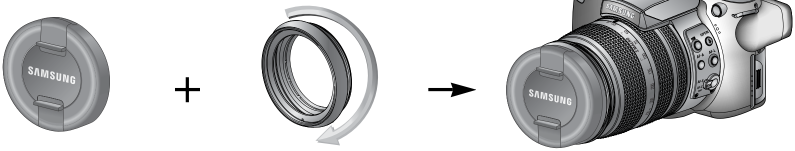
[Carrying the lens hood]

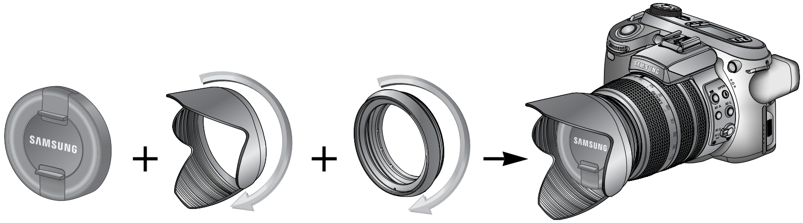
Before using the camera

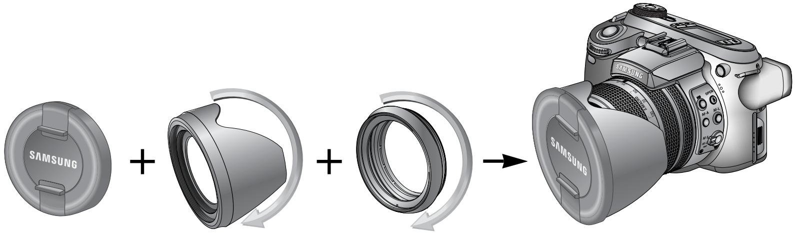
Attaching the lens cap

- When you don’t use the camera, attach the lens cap.
  You can attach the lens cap as show below.





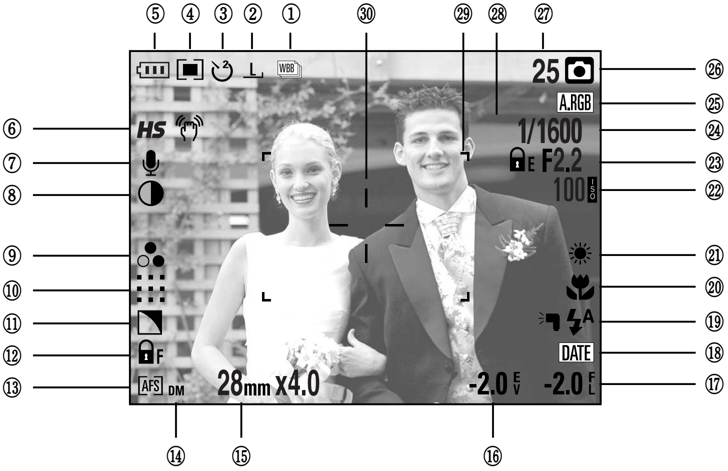




LCD indicator

Rear LCD/ Finder LCD

- ■ The LCD displays information about the shooting functions and selections.
- ■ Refer to page 63 for more information about selecting the LCD.


⑤ ④ ③ ② ① ㉚ ㉙ ㉘ ㉗
L
WBB
25
㉖
A.RGB
㉕
⑥
HS
1/1600
㉔
⑦
F2.2
㉓
⑧
100 ISO
㉒
⑨
㉑
⑩
⑳
⑪
⑲
⑫
F
DATE
⑱
⑬
AFS DM
28mm X4.0
-2.0 EV
-2.0 FL
⑰
⑭ ⑮ ⑯

[Image & Full status]

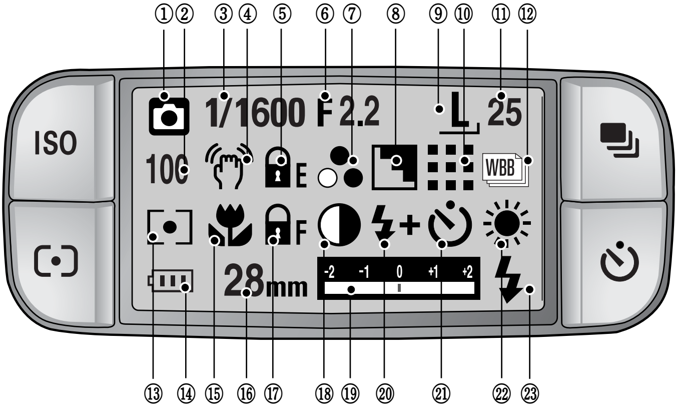
No.	Description	Icons	Page
1	Drive modes	□ C H U AEB AFB WBB I	p.36~39
2	Image size	L 3:2 16:9 M1 M2 S1 S2 640 320 160	p.70
3	Self-timer/ Remote control	⏲2 ⏲10 ⏲10 2 0 2	p.40~41
4	Metering	▣ (•) [•]	p.43
5	Battery status	▮▮▮ ▮▮ ▮ □	p.17
6	High speed shutter mode/Camera shake warning	HS ✋	p.49, 34
7	Voice memo	🎤	p.76
8	Contrast	◐	p.73
9	Saturation	● ○●	p.74
10	Image quality	RAW TIFF ⁙ ⁙ ⁖	p.71
11	Sharpness	◩ ◩ ◸	p.75
12	Focus Lock	🔒F	p.47
13	Focus mode	AFS AFC MF	p.47~48

LCD indicator

14	Direct MF	DM	p.48
15	Focal length/ Digital zoom	28mmX4.0	p.44~45
16	Exposure compensation	-2.0 EV	p.50
17	Flash power compensation	-2.0 FL	p.58
18	Date imprint	DATE	p.119
19	Flash	☞ ⚡A 👁 ⚡ ⚡S ⚡👁 ⊘	p.57~60
20	Macro	✿ ✿IS ✿A	p.55~56
21	White balance	AUTO ☀ ☁ ☼ ☼ ☼ K ▲1 ▲2	p.53~54
22	ISO	AUTO 50 100 200 400	p.42
23	Aperture value	F2.2	p.30~31
24	Shutter speed	1/1600	p.30~31
25	Colour space	A.RGB	p.77
26	Recording mode	📷 P A S M 🎥 My1 My2 My3 ☾ ▨ ▨ ▨ ▨ ▨ ▨ ▨ ▨ ▨ ▨	p.29~33
27	Number of available shots remaining	25	p.21
28	Exposure lock	🔒E	p.51
29	Auto focus frame	⌜ ⌝ ⌞ ⌟	-
30	Spot zone	⌖	p.79

LCD indicator

Top LCD


①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
ISO
1/1600 F 2.2
L
25
100
E
WBB
F
28mm
-2 -1 0 +1 +2
⑬
⑭
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No.	Description	Icons	Page
1	Recording mode	📷 P A S M 🎥 My1 My2 My3 ☾	p.29~33
2	ISO	AUTO 50 100 200 400	p.42
3	Shutter speed	1/1600	p.30~31
4	Camera shake warning	🖐	p.34
5	Exposure lock	🔒E	p.51
6	Aperture value	F2.2	p.30~31
7	Saturation	●○●	p.74
8	Sharpness	◪ ◩ ◥	p.75
9	Image size	L, 3:2, 16:9, M1, M2, S1, S2, 640, 320, 160	p.70
10	Image quality	RAW TIFF ⁞⁞⁞ ⁞⁞ ⁚⁚	p.71
11	Number of shots remaining	25	p.21
12	Drive mode	☐ C H U AEB AFB WBB I	p.36~39
13	Metering	[■] [(•)] [•]	p.43
14	Battery status	▮▮▮ ▮▮ ▮ ▭	p.17
15	Macro	🌷 🌷S 🌷A	p.55~56
16	Focal length	28mm	p.44

LCD indicator

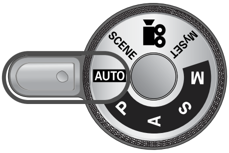
17	Focus lock/ Focus mode	🔒F [AFS] [AFC] [MF] [DMF]	p.47~48
18	Contrast	◑	p.73
19	Compensation indicator	-2 -1 0 +1 +2	p.50
20	Flash power compensation	ϟ+ ϟ−	p.58
21	Self-timer	⏲2 ⏲10 ⏲10 0 2	p.40~41
22	White balance	AUTO ☀ ☁ K 1 2	p.53~54
23	Flash	ϟA 👁 ϟ ϟS ϟ ⊘	p.57~60

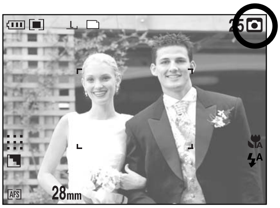
Recording mode

■ How to use the AUTO (**AUTO**) mode

Please select this mode for quick and easy picture taking with minimal user interaction.

1. Insert the battery and memory card. (p.16, 22)
2. Press the power button to turn on the camera. (Date & Time will display for about 3 Sec. and disappear.)
3. Select the AUTO mode by rotating the mode dial.
4. Point the camera towards the subject and compose the image by using the LCD.
5. Press the shutter button to capture an image.





[AUTO mode]

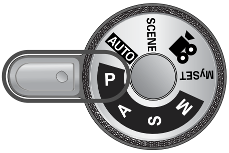
INFORMATION

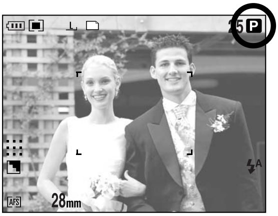
- If the auto focus frame turns to red when you press the shutter button down half way, it means that the camera cannot focus on the subject. Should this be the case, the camera is unable to capture an image clearly.

- How to use the PROGRAM mode (**P**)

Selecting the program mode will configure the camera with optimal settings. You can still manually configure all functions except the aperture value and shutter speed.
Step 1~2 are the same as those for AUTO mode.

3. Select the PROGRAM mode by rotating the mode dial.
4. Press the menu button to configure advanced functions (p.67).
5. Point the camera towards the subject and compose the image by using the LCD.
6. Press the shutter button to capture an image.





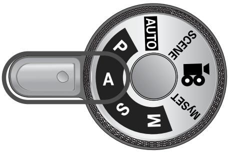
[PROGRAM mode]

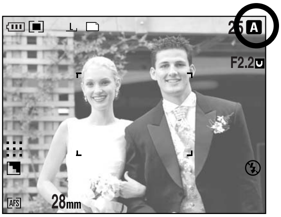
- How to use the APERTURE PRIORITY mode (**A**)

This mode will set the aperture value for automatic exposure depends on the brightness of the object by automatic shutter speed setting in the camera.
Steps 1~2 are the same as those for AUTO mode.

3. Select the APERTURE PRIORITY mode by rotating the mode dial.
4. Select the desired aperture value by rotating the Rear jog dial (JOG2).
5. Point the camera towards the subject and compose the image by using the LCD.
6. Press the shutter button to capture an image.

* Smaller Aperture values make the object sharp but blur the background. Larger Aperture values make both the object and background sharp.





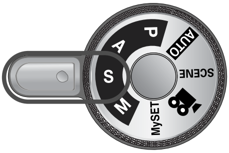
[Aperture priority mode]

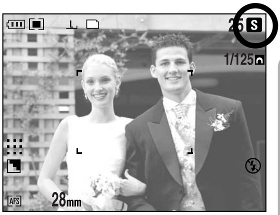
- How to use the SHUTTER PRIORITY mode (**S**)

This mode will set the shutter speed for automatic exposure depends on the brightness of the object by automatic aperture value setting in the camera.
Steps 1~2 are the same as those for AUTO mode.

3. Select the SHUTTER PRIORITY mode by rotating the mode dial.
4. Select the desired shutter speed by rotating the Front jog dial (JOG1).
5. Point the camera towards the subject and compose image by using the LCD.
6. Press the shutter button to capture an image.

* High Shutter speeds can capture a moving object in a still image as if the object is not moving. Low Shutter speeds can capture a moving object with an ‘active’ effect.



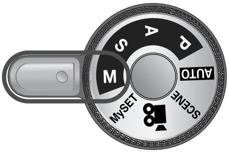


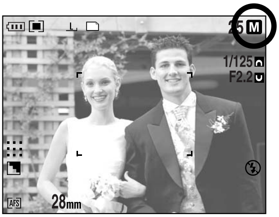
[Shutter Priority mode]

- How to use the MANUAL mode (**M**)

The user can manually set both the aperture value and the shutter speed.
Steps 1~2 are the same as those for AUTO mode.

3. Select the MANUAL mode by rotating the mode dial.
4. Select the desired shutter speed or aperture value by rotating a jog dial.
   - Front jog dial (JOG1) : Selecting the shutter speed
   - Rear jog dial (JOG2) : Selecting the aperture value
5. Point the camera towards the subject and compose the image by using the LCD.
6. Press the shutter button to capture an image.





[Manual mode]

INFORMATION

- In the manual mode, you can change the aperture value and shutter speed after fixing the Exposure value by rotating the EVC ring.
- Available shutter speed, by the aperture value
  - Over F2.2 : 15.0 ~ 1/1600 Sec.
  - Over F3.2 : 15.0 ~ 1/2000 Sec.
  - Over F4.0 : 15.0 ~ 1/2500 Sec.
  - Over F5.0 : 15.0 ~ 1/3200 Sec.
  - Over F7.1 : 15.0 ~ 1/4000 Sec.

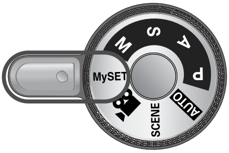
Recording mode

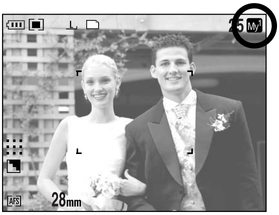
- How to use the MySET mode (My)

This mode allows users to save frequently used shooting settings for later use.

Steps 1~2 are the same as those for AUTO mode.

3. Select the MySET mode by rotating the mode dial.
4. Press the menu button and select the [My^{1}] menu tab.
5. Press the Right button and select the [Load Myset] menu by pressing the Up/ Down button.
6. Press the Right button and select a desired MySET number by pressing the Up/ Down button.
7. Press the OK button and a confirmation window will display. Select the [Yes] menu and press the OK button to load the camera configuration saved in the MySET number and close the menu screen.
8. Point the camera towards the subject and compose the image by using the LCD.
9. Press the shutter button to capture an image.
   Please see page 78 for details of the MySET shooting mode and menus.





[MySET mode]

- How to use the MOVIE CLIP mode (🎥)

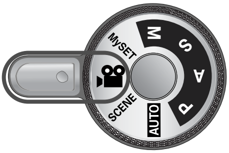
A movie clip can be recorded for as long as the available recording time of the memory capacity allows.

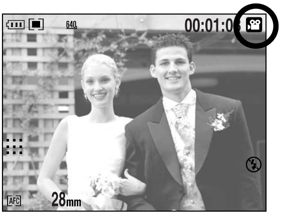
(A movie clip sets as 640X480 movie size and 25fps frame rate can be taken up to 30 seconds.)

Steps 1~2 are the same as those for AUTO mode.

3. Select the MOVIE CLIP mode by rotating the mode dial.
4. The MOVIE CLIP mode icon and available recording time will display on the LCD.
5. Point the camera towards the subject and compose the image by using the LCD. Press the shutter button and movie clips are recorded for as long as the available recording time. Movie clips will still be recorded if the shutter button is released. If you wish to stop recording, press the shutter button again.

* Image size and type are listed below.
  - Image size : 640X480, 320X240, 160X120(Selectable)
  - File type : *.avi(MJPEG)





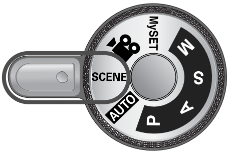
[MOVIE CLIP mode]

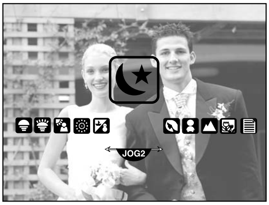
- How to use the SCENE mode (**SCENE**)

Use the menu to easily configure optimal settings for a variety of shooting situations. These include NIGHT, PORTRAIT, CHILDREN, LANDSCAPE, CLOSE UP, TEXT, SUNSET, DAWN, BACKLIGHT, FIREWORKS and BEACH & SNOW scenes.

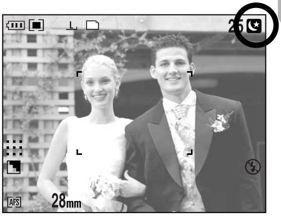
Steps 1~2 are the same as those for AUTO mode.

3. Select the SCENE mode by rotating the mode dial.
4. Press the SCENE button and scene menu will display as shown alongside.
5. Select the desired Scene sub menu by rotating the Rear jog dial (JOG2) and press the OK button.
   Please see page 65 for detailed descriptions for each scene.
6. The current scene icon is displayed at the top right of the LCD.
7. Point the camera towards the subject and compose the image by using the LCD.
8. Press the shutter button to capture an image.





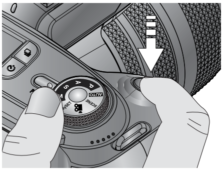
[SCENE mode]



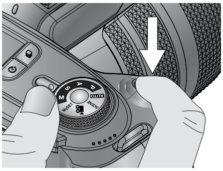
[Night scene mode]

Things to Watch Out for When Taking Pictures

- Pressing the shutter button down half way.
  Lightly press the shutter button to confirm focus and flash battery charge (p.14).
  - When the green auto focus frame lights up, it means the camera is focused on the subject and a beep will sound.
  - When the flash is charged, the flash status lamp (Red) will illuminate. Press the shutter button all way down to take the picture.



[Lightly press the shutter button]



[Press the shutter button]

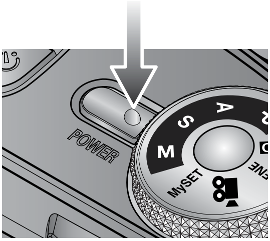
- The available recording time may vary depending on shooting conditions and camera settings.
- When the Flash Off or Slow synchro mode is selected in low lighting conditions, the camera shake warning indicator (✋) may appear on the LCD. In this case, use a tripod, support the camera on a solid surface or change the flash mode to flash shot mode.
- Compensate for shooting into light:
  It is advisable not to take pictures into direct sunlight as this can make the foreground very dark. However, should your desired shot require this please use the [Backlight] from the scene shooting mode (see page 65), fill-in flash (see page 59), spot metering (see page 43), or exposure compensation (see page 50).
- Avoid obstructing the lens or the flash when you capture an image.
- Using the Rear LCD extensively will drain the battery.
  We recommend turning off the Rear LCD and using the Finder LCD and Top LCD as often as possible in order to extend battery life.
- Under certain conditions the auto focus system may not perform as expected, for example;
  - When photographing a subject that has little contrast.
  - If the subject is highly reflective or shiny.
  - If the subject is moving at high speed.
  - When there is strong reflected light, or when the background is very bright.
  - When the subject matter has only horizontal lines or the subject is very narrow (such as a stick or flagpole).
  - When the surroundings are very dark.
- If the camera is not turned off by the Power button, the changed menu settings may not be saved.
- If there is no operation during the specified time, the LCD will be turned off automatically to save battery life. Refer to the [LCD Off] menu (p.114) for more information.

Using the camera buttons to adjust the camera

- The RECORDING (AUTO, PROGRAM, APERTURE PRIORITY, SHUTTER PRIORITY, MANUAL, MySET, MOVIE CLIP, SCENE) mode can be set up by using the camera buttons.

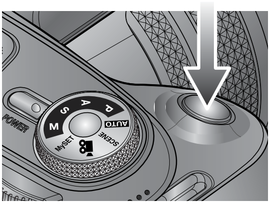
POWER button

- Used for turning the camera's power on or off.
- If there is no operation during the specified time, the camera's power will be turned off automatically to save battery life. Refer to page 113 for more information about the auto power off function.



SHUTTER button

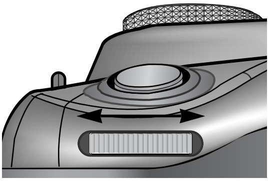
- In MOVIE CLIP mode : Pressing the shutter button down fully starts the process for recording a movie clip.
  Press the shutter button once and the movie clip is recorded for as long as the available recording time in the memory allows. If you wish to stop recording, press the shutter button again.

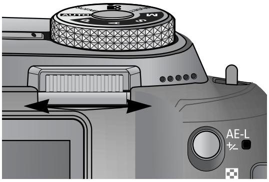


- In STILL IMAGE mode
  - Pressing the shutter button down halfway activates the auto focus and checks the settings of the flash.
  - Pressing the shutter button down fully takes the image and stores the relevant data regarding the shot. If you select voice memo recording, the recording will start after the camera has finished storing the image data.

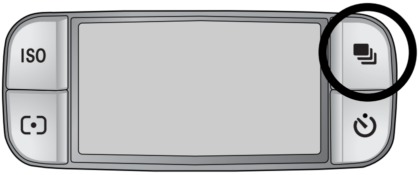
Jog dial (Front, Rear)

- Used for selecting a desired value.
- Used for moving Up/ Down/ Left/ Right in a menu.





Drive button



- You can select various shooting modes.

- Drive mode
  - Single shooting (□) : Takes one picture only.
  - Continuous shooting (C) : Images will be taken continuously until the shutter button is released.
  - High speed continuous shooting (H) : This takes 2.5 shots per second when the shutter is pressed down and held.
  - Ultra High speed continuous shooting (U) : This takes 10 shots per second, when the shutter is pressed down and held. After completing the continuous shooting, images are saved and the images play back on the Rear LCD. The maximum number of shots is 30 and the image size is fixed as 1024X768 (S1).
  - Auto Exposure Bracket (AEB) : Use this menu if it is hard to decide exposure of the object. The camera will take 3 or 5 shots with settings at, below and above the set exposure.
  - Auto Focus Bracket (AFB) : Use this menu if it is hard to decide distance of the object. The camera will take 3 or 5 shots at different focal points.
  - White Balance Bracket (WBB) : Use this menu if it is hard to decide white balance of the object. The camera will take 3 or 5 shots at different white balance settings.
  - Interval shooting (I) : You can set predetermined intervals for the camera to take pictures over a period of time.

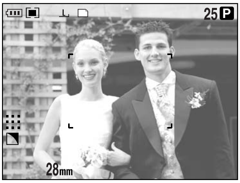
INFORMATION

- If you change the camera mode, a drive mode set in the Scene mode is changed to single shooting automatically.
- When you select RAW or TIFF file format, you can’ t select Continuous shooting, Bracket shooting, Interval shooting.

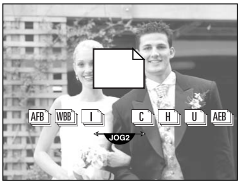
Drive button

■ How to set the drive mode

- Selecting the various modes available
  1. Press the Drive button and drive mode icon will display on the LCD.
  2. Select a desired drive mode by rotating the Rear jog dial (JOG 2).

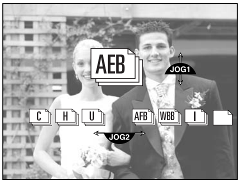


[Still image mode]

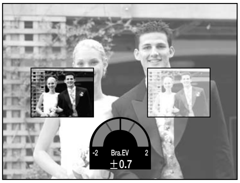


[Drive mode menu]

- How to set the AEB
  1. Select the AEB icon by rotating the Rear jog dial (JOG2)



  2. Select a desired exposure value by rotating the Front jog dial (JOG1).
     - The pre-view image will display on the Rear LCD as the exposure value is changed.



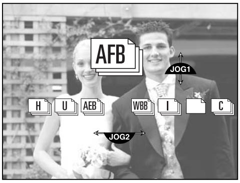
  3. Press the OK or Shutter button to set the exposure value.
  4. Press the shutter button to capture an image. You can take 3 or 5 shots according to the selected exposure value.

※

Number of shots	Selectable exposure values
3	±0.3, ±0.7, ±1.0, ±1.3, ±1.7, ±2.0
5	±0.3&±0.7, ±0.7&±1.3, ±1.0&±2.0

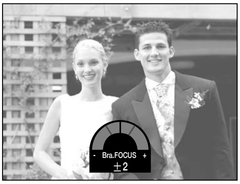
※ You can't select the AEB icon in the Auto recording mode and movie clip mode.

- How to set the AFB
  1. Select the AFB icon by rotating the Rear jog dial (JOG2)



Drive button

2. Select a desired focus value by rotating the Front jog dial (JOG1).



3. Press the OK or Shutter button to set the focus value.
4. Press the shutter button to capture an image.
   You can take 3 or 5 shots according to the selected focus value.

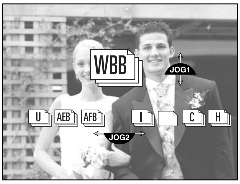
※

Number of shots	Selectable focus value
3	±1, ±2, ±3, ±4, ±5, ±6
5	±1&±2, ±2&±4, ±3&±6

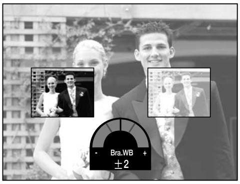
※ You can't select the AFB icon in the Auto recording mode and movie clip mode.

- How to set the WBB

1. Select the WBB icon by rotating the Rear jog dial (JOG2)



2. Select a desired white balance value by rotating the Front jog dial (JOG1).
   - The pre-view image will display on the Rear LCD as the white balance value is changed.



3. Press the OK or Shutter button to set the white balance value.
4. Press the shutter button to capture an image.
   You can take 3 or 5 shots depending on the selected white balance value.

※

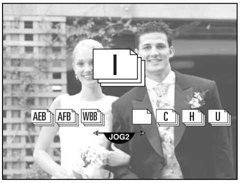
Number of shots	Selectable white balance value
3	±1, ±2, ±3, ±4, ±5, ±6
5	±1&±2, ±2&±4, ±3&±6

※ You can't select the WBB icon in the Auto recording mode and movie clip mode.

Drive button

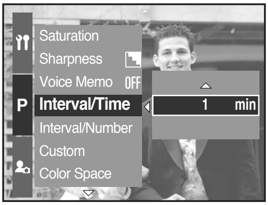
- How to use the interval shooting

1. Select the Interval shooting icon [I] by rotating the Rear jog dial (JOG2).
2. Press the shutter button to capture an image. Images are taken at a set interval.
   - After taking a picture, the camera power is turned off automatically.
   - After a set time, the camera power is turned on automatically and the second image is taken.
   - Images are taken up to a set number of shots at fixed intervals.
3. After completing the interval shooting, the camera power is turned off automatically.

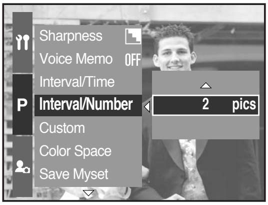

I
AEB
AFB
WBB
C
H
U
JOG2

- How to set the interval shooting

1. Press the Menu button and select the [P] menu tab.
2. Press the Right button and select the [Interval/Time] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired menu by pressing the Up/ Down button.
   - Interval time : 1 ~ 60 Min. (per interval)
4. Press the OK button to set the setting.
5. Select the [Interval/Number] menu.
6. Press the Right button and select a desired menu by pressing the Up/ Down button.
   - the interval can be set to any number of shots between 2 and 99.
7. Press the OK button to set the setting.


Saturation
Sharpness
Voice Memo OFF
P
Interval/Time
1 min
Interval/Number
Custom
Color Space

[Selecting the interval time]

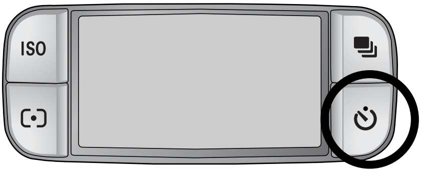

Sharpness
Voice Memo OFF
Interval/Time
P
Interval/Number
2 pics
Custom
Color Space
Save Myset

[Selecting the number of interval shots]

INFORMATION

- If you press the power button during the interval shooting (camera power is off), the interval shooting is cancelled.
- You can't select the interval shooting in the Auto recording mode and movie clip mode.
- If you select RAW, TIFF file format, you can't select the interval shooting.
- You can set the number of interval shots over number of shots remaining but the images are taken to the number of shots remaining.
- We recommend that you use a fully charged battery or AC adapter when you take the interval shots.

Self-timer/ Remote button



- This function is often used when the photographer would also like to be in the image.

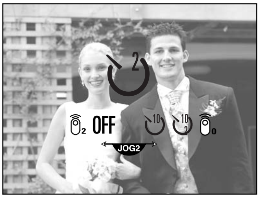
- Self-timer/ Remote mode

- Off (OFF)	: Self-timer function is off.
- 2 Sec. Self-timer (⏲2)	: Pressing the shutter button will allow an interval of 2 seconds before the image is taken.
- 10 Sec. Self-timer (⏲10)	: Pressing the shutter button will allow an interval of 10 seconds before the image is taken.
- Double Self-timer (⏲10/2)	: A picture will be taken after about 10 seconds and 2 seconds later a second picture will be taken.
- Remote control (📡0)	: The image is taken by Pressing the shutter button of the remote control.
- 2 Sec. Remote control (📡2)	: Pressing the shutter button of remote control will allow an interval of 2 seconds before the image is taken.

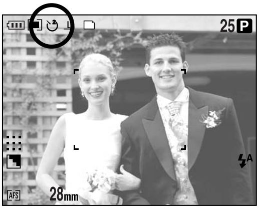
- How to use the Self-timer/ Remote button

1. Press the self-timer button and a self-timer icon will display on the LCD.
2. Select a desired self-timer by rotating the Rear jog dial (JOG2).
3. Press the OK button to set the setting.

- Selecting a self-timer :
  An image will be taken after the specified time has elapsed and the self-timer function will be maintained.
- Selecting a remote control function :
  An image is taken by the shutter button of the remote control instead of the shutter button of the camera.
- Cancelling the self-timer :
  Though the self-timer function will be maintained after taking an image, rotating the mode or pressing the play mode button cancels the self-timer function.



[Self-timer/ Remote control icon]



[Selecting the 2 Sec. self-timer]

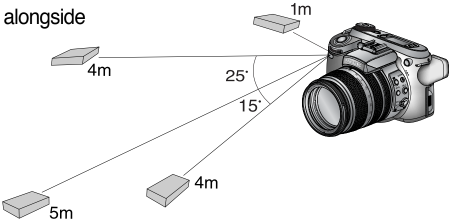
Self-timer/ Remote button

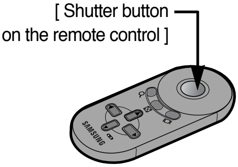
INFORMATION

- Though you select a remote control icon, you can still take an image by using the shutter button of the camera.
- If you select the 2 Sec. remote control icon and press the shutter button of the camera, the image will be taken after 2 seconds.
- When you select RAW and TIFF file types, you can't select the double self-timer.

- Remote control range

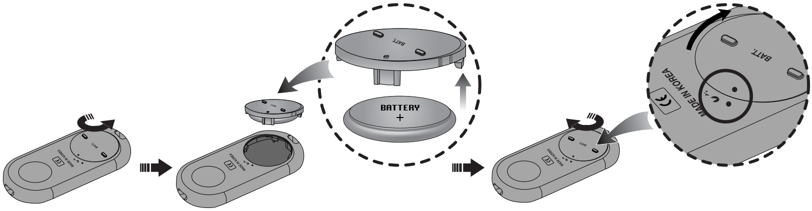
  When you take an image by using the remote control, refer to the illustrations shown alongside about the remote control range.





- Replacing batteries for the remote control

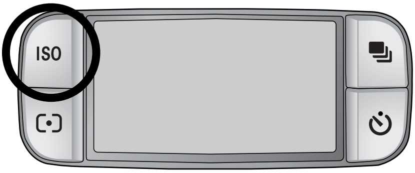
  Make sure the + polarity is toward the top and the - polarity is toward the bottom while installing batteries for the remote control. Assemble the cover into the remote control as the direction of remote control. Rotate the cover as shown. The remote control takes a CR 2025 3V battery.



INFORMATION

- If you operate the Mode dial and Self-timer button during the self-timer operation, the self-timer function is cancelled.
- Use a tripod to prevent the camera from shaking.

ISO button

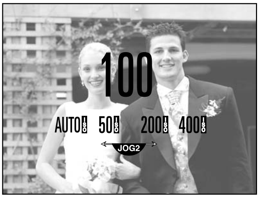


- You can select the ISO sensitivity when taking pictures.
  The speed or specific light-sensitivity of a camera is rated by ISO numbers.

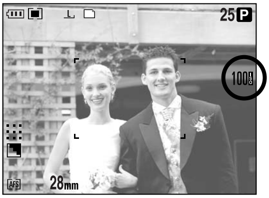
- ISO
  - AUTO (AUTO) :
    The camera’s sensitivity is automatically changed by variables such as lighting value or subject brightness.
  - 50, 100, 200, 400 :
    You can increase the shutter speed while the same amount of light is present, by increasing the ISO sensitivity. However, the image may be saturated in high luminance. The higher the ISO value, the higher the camera’s sensitivity to light is and therefore the greater its capacity to take pictures in dark conditions. However, the noise level in the image will increase as the ISO value increases, making the image appear coarse.

- How to set the ISO

1. Press the ISO button and an ISO icon will display on the LCD.
2. Select a desired icon by rotating the Rear jog dial (JOG2).
3. Press the OK button to set the setting.



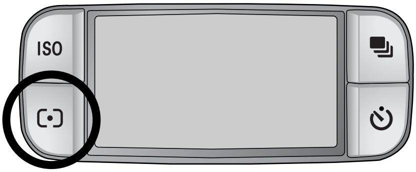
[ISO icons]



[Selecting ISO 100]

※ You can select the ISO sensitivity up to 100 in the High speed continuous mode and Ultra high speed continuous mode.

Metering button



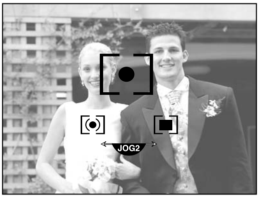
- If you cannot obtain suitable exposure conditions, you can change the metering method to take better pictures.

- Metering methods
  - Multi metering ([■]) :
    Exposure will be calculated based on each parts of the LCD divided into several parts.
    This is suitable for general use.
  - CWA (Centre Weighted Average) metering ([(●)]) :
    Exposure will be calculated based on an average of the available light in the image area.
    However, the calculation will be biased towards the centre of the image area.
    This is suitable for taking a picture of small object like a flower or insects.
  - Spot metering ([•]) :
    Only the cross marked area in the centre of the LCD will be metered for light.
    This is suitable when the subject in the centre is exposed correctly, regardless of the back lighting.

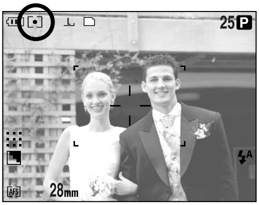
※ The + mark will be displayed when spot metering has been selected.

- How to set the metering mode

1. Press the metering button and a metering icon will display on the LCD.
2. Select a desired icon by rotating the Rear jog dial (JOG2).
3. Press the OK button to set the setting.



[Metering icons]

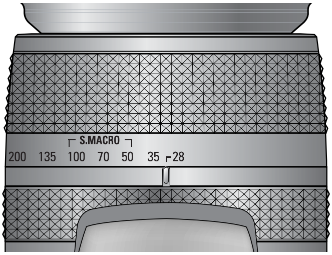


[Selecting the spot metering]

Zoom operation

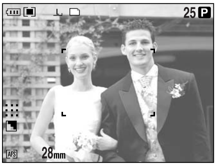
■ You can change the zoom rate by rotating the Zoom ring.

- This camera has a 15X optical zoom and a 2X and 4X digital zoom function. Using both will offer a total zoom ratio of 30X or 60X.

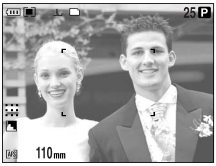

S.MACRO
200 135 100 70 50 35 28

- Optical Zoom TELE

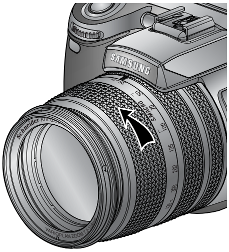
  Rotate the Zoom ring to the right. This will zoom into the subject i.e. the subject will appear nearer.


25 P
AFS
28mm

[Wide]

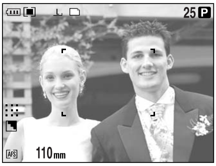

25 P
AFS
110mm

[Tele]

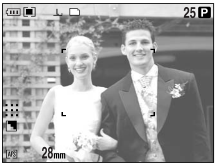


- Optical Zoom WIDE

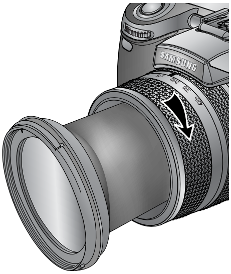
  Rotate the Zoom ring to left. This will zoom out from the subject i.e. the subject will appear further away.


25 P
AFS
110mm

[Tele]

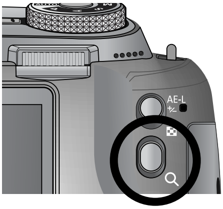

25 P
AFS
28mm

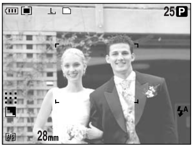
[Wide]



Zoom operation

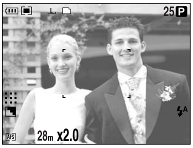
- Digital zoom
  Pressing the Digital zoom button for over 1 second will enlarge the subject as shown below.





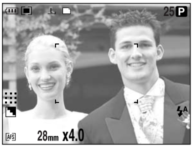
[Off]

Pressing the Zoom button



[Digital zoom 2X]

Pressing the Zoom button



[Digital zoom 4X]

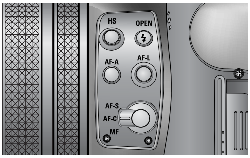
Pressing the Zoom button

INFORMATION

- Images taken using the digital zoom may take a little longer for the camera to process. Allow time for this to take place.
- The digital zoom cannot be used in RAW, TIFF and movie clip shots.
- You may notice a decrease in image quality when using the digital zoom.
- The higher optical and digital zoom, the more camera shake can be take place. If the focal length is over 200mm, the camera shake warning indicator ( ) will display. When you select a higher optical or digital zoom, we recommend using the Finder LCD and the tripod.
- Take care not to press the lens as this may cause a camera malfunction.
- Do not pull the lens by hand and do not rotate the zoom ring quickly. It may cause a camera malfunction. Please be careful when using the lens.

Focusing

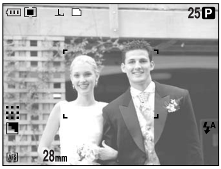
- You can select the proper focus mode by switching the focus switch.


HS
OPEN
AF-A
AF-L
AF-S
AF-C
MF

- AF-A : Changing the focus frame (⌜⌝⌞⌟)

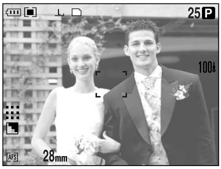
  You can change the focus frame size and position according to the subject size and position by pressing the AF-A button. This function is available in the AF-S, AF-C mode.

  - Wide AF : This is useful when taking wide range of frame.
  - Fixed spot AF : The frame (White) will be fixed at the centre of the LCD.
  - Modifying the Spot AF position : The frame will be yellowed and blink. The frame position can be changed its position.
  - Setting the Spot AF position : The frame turns yellow and the frame position will be set.


25P
28mm
AFS

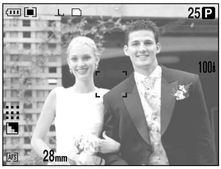
[Wide AF]

AF-A button


25P
100
28mm
AFS

[Fixed spot AF: White]

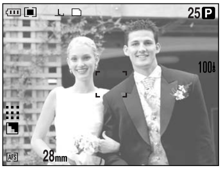
AF-A button


25P
100
28mm
AFS

[Setting Spot AF: Yellow, Blinking]

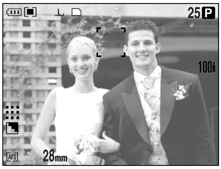
OK button

AF-A button


25P
100
28mm
AFS

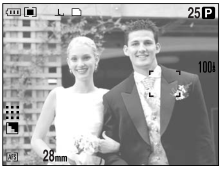
[Spot AF: Yellow]

Front jog dial (JOG1)


25P
100
28mm
AFS

[Moving Up/ Down the frame]

Rear jog dial (JOG2)


25P
100
28mm
AFS

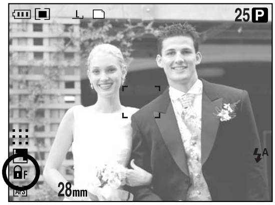
[Moving the frame to the left or right]

Focusing

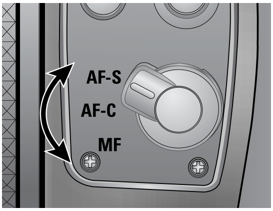
- AF-L : Focus lock

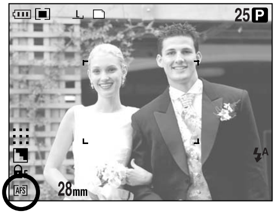
  To focus on the subject positioned outside of the centre, use this button. This function is available in the AF-S mode.

  - How to use the focus lock
  1. Ensure the subject is in the centre of the auto focus frame.
  2. Press the AF-L button. The frame turns green and Focus lock icon (🔒F) will display.
     It means the camera is focused on the subject.
  3. Recompose the picture and press the shutter button.
     After taking an image, the Focus lock function will be cancelled.



- AF-S : Single Auto Focus





This is suitable for taking a still image. Whenever the shutter button is pressed, the camera is focused on the subject automatically.

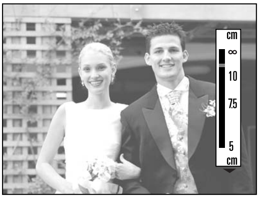
- AF-C : Continuous Auto Focus

  This is suitable for taking moving subject. The camera keeps focusing the subject when the shutter button is pressed halfway down.

  ※ Note that using the Continuous Auto Focus uses more battery than the Single Auto Focus.

Focusing

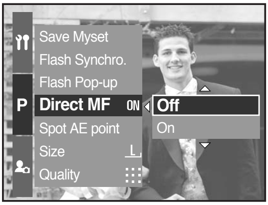
- MF : Manual Focus
  Where the automatic focusing is not available, for example, in very dark conditions, use the manual focus.
  Please be careful when using the manual focus as the picture can be blurred easily.



- How to set Manual focus in the Program mode
  You can change the focus even though the camera is focused on a subject by rotating the focus ring. This function is available in the AF-S mode.

1. Press the Menu button and select [P] menu tab.
2. Press the Right button and select [Direct MF] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.

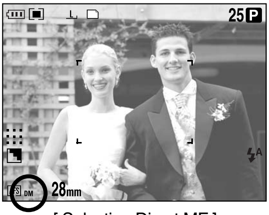
- [Off] : You can’t change the focus manually.
- [On] : You can change the focus manually.



[Direct MF menu]

4. Select the [On] sub menu. Press the OK button to set the change and the [DM] icon will display on the Rear LCD.
5. Pressing the shutter button half way down, change the focus by rotating the Focus ring.

- To move the focus closer, rotate the Focus ring to the right.
- To move the focus farther, rotate the Focus ring to the left.



[Selecting Direct MF]

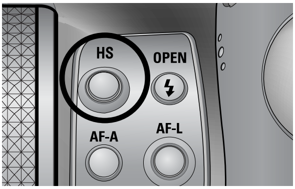
High speed shutter mode

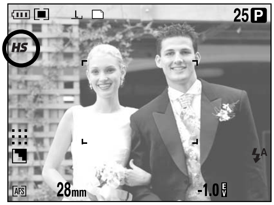
- You can reduce camera shake without using the flash in this mode.

- How to set the High speed shutter mode
  1. Press the HS (High Speed) button for over 1 second to set the High speed shutter mode.

  2. The HS icon will display on the Rear LCD as shown alongside.

  3. Press the shutter button to capture an image.





INFORMATION

- Note that the noise level in the image will increase when you use the high speed shutter as the high speed shutter use higher ISO value.
- If you select the high speed continuous mode or ultra high speed continuous mode, the high speed shutter mode will be cancelled.
- This function isn't available in the Shutter priority, Manual and Movie clip mode.
- If you change the camera mode, a high speed shutter mode set in the Scene mode is changed to normal shutter speed automatically.

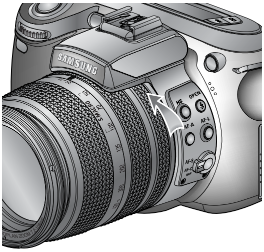
Exposure control

- Exposure compensation

  This camera automatically adjusts the exposure according to the ambient lighting conditions.

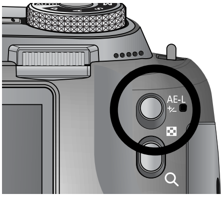
  You can also select the exposure value by using the EVC (Exposure Value Compensation) ring.

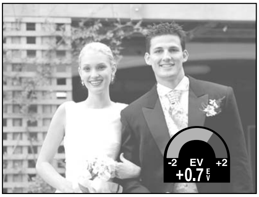
  This function is available in the PROGRAM, APERTURE PRIORITY, SHUTTER PRIORITY, SCENE, MySET, MOVIE CLIP mode.



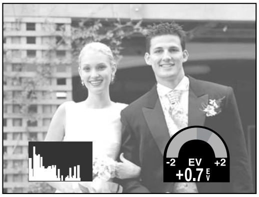
● How to set the Exposure Value Compensation

1. Press and hold the AE-L button. And then rotate the EVC ring. The Exposure Compensation menu will display.
   - Rotating to right : 0 ~ +2EV (1/3 EV step)
   - Rotating to left : 0 ~ -2EV (1/3 EV step)



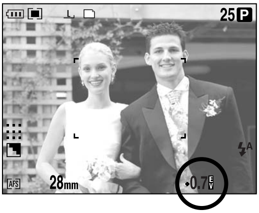


[Normal shooting mode]



[Histogram display]

2. Select an Exposure Value by rotating the EVC ring. The Exposure Value will be set after releasing the AE-L button and the changed Exposure Value will display on the LCD.

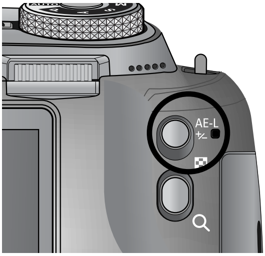


* A negative exposure compensation value reduces the exposure. Note that a positive exposure compensation value increases the exposure and the LCD will appear white or you may not get good pictures.

Exposure control

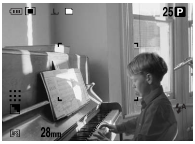
- Exposure lock

  This camera automatically adjusts the exposure according to the ambient lighting conditions.
  You can change the exposure value manually by using the AE-L (Auto Exposure Lock) button in a lighting situation where there are exposure differences between a subject and background.

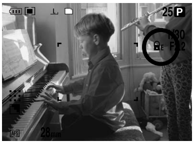


● How to set the Exposure Value Compensation

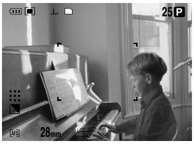
1. Ensure the subject is in the centre of the auto focus frame.
2. Move the focus frame to a subject that has the desired exposure value.
3. Press the AE-L button and the exposure value will be fixed. An exposure lock icon (🔒E) will display on the LCD.
4. Recompose the picture and press the shutter button. After taking an image, the Focus lock function will be cancelled.



[Scene for shooting]



[Focus to the object and press the AE-L button]



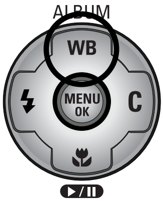
[Refocus and fully press the shutter button]

5-function button

- The 5 function button activates the following;
  - Up button : While the menu is showing, press the Up button to move up the cursor up the sub menu. When the menu is not displayed on the LCD monitor, the UP button operates as the white balance button.
  - Down button : While the menu is showing, press the Down button to move the cursor down the submenu. When the menu is not showing, you can use the Down button to take macro pictures.
  - Left button : When the menu is displayed on the LCD monitor, pressing the Left button makes the cursor shift to the left tab.
    When the menu is not displayed on the LCD monitor, the Left button operates as the FLASH button.
  - Right button : When the menu is displayed on the LCD monitor, pressing the Right button makes the cursor shift to the right tab.
    When the menu is not displayed on the LCD monitor, you can execute a function that was set in the [Custom] menu by pressing this button.
  - MENU/ OK button : If the menu is displayed, use the 5-Function buttons to change the data values and for your changes to be accepted.
    If the menu is not displayed, press the MENU/ OK button to display a menu for the current camera mode on the LCD. Press the button again to return to the previous state.

White balance

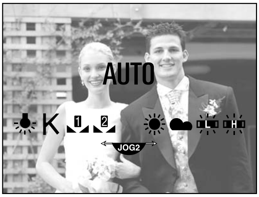
- The white balance control allows you to adjust the colours to appear more natural looking.



● How to set the white balance

1. Press the WB (Up) button and a white balance icon will display on the LCD monitor.

2. Select a desired white balance by rotating the Rear jog dial (JOG2).



[White balance icons]

AUTO	AWB	: The camera automatically selects the appropriate white balance settings, depending on the prevailing lighting conditions.
DAYLIGHT	☼	: For taking images outside.
CLOUDY	☁	: For taking images under a cloudy and overcast sky.
Fluorescent H	H	: For shooting under daylight fluorescent types of three-way fluorescent lighting.
Fluorescent L	L	: Shooting under white fluorescent lighting.
TUNGSTEN	☀	: For shooting under tungsten (standard light bulb) lighting.
CUSTOM	1 2	: Allows the user to set the white balance according to the shooting condition. (CUSTOM 1, CUSTOM 2)
Colour temperature	K	: You can set a proper colour temperature.

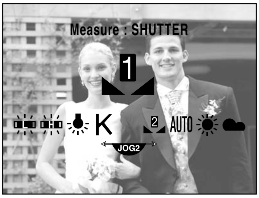
Different lighting conditions may cause a colour cast on your images.

White balance

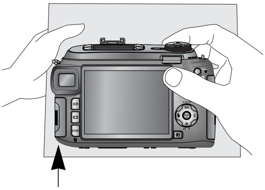
- How to set the custom white balance

White balance settings may vary slightly depending on the shooting environment.
You can select the most appropriate white balance setting for a given shooting environment by setting up the custom white balance.

1. Select the CUSTOM (▂■▂) menu of the White Balance.
   You can select CUSTOM 1 or CUSTOM 2 white balance.



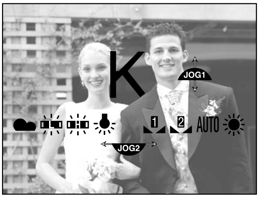
2. Place a sheet of white paper in front of the camera so that the LCD shows only white, and then press the SHUTTER button. The flash may fire according to the shooting condition.
3. The value you set will be saved.
   - The custom white balance value will be applied, starting with the next picture you take.
   - The user configured white balance will remain effective until it is overwritten.


White paper

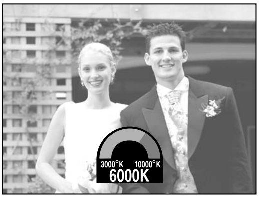
- How to set the colour temperature

Colour temperature is a simplified way to characterize the light source. Low colour temperature implies warmer light (more red) while high colour temperature implies a colder light (more blue).

1. Select the colour temperature (K) by rotating the Rear jog dial (JOG2).
2. Select a desired colour temperature (K) by rotating the Front jog dial (JOG1).
   - Approx. 3000 K : Incandescent lamp
   - Approx. 4000 K : Out door shooting around the morning or evening
   - Approx. 5000 K : Sunny daylight shooting
   - Approx. 6000 K : Electronic photo flash
   - Approx. 10000 K : Blue sky
3. Press the WB button to set the setting.
   - After pressing the WB button, the colour temperature icon will display.
   - The user configured white balance will remain effective until it is overwritten.



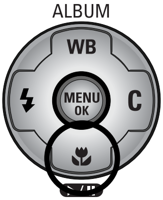
[Colour temperature icon]



[Selecting a colour temperature]

Macro

- When the menu is not showing, you can use the MACRO/ DOWN button to take macro pictures.



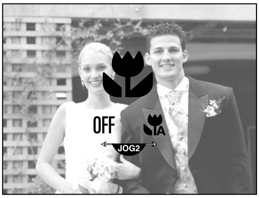
- Types of focus modes and focus ranges

Unit : cm

Focus type	Auto		Macro		Super macro		Auto macro	
	Wide	Tele	Wide	Tele	Wide	Tele	Wide	Tele
Focus range	50~∞	400~∞	10~70	150~430	3~70 (Focus range : 50 ~ 100m)		10~∞	150~∞

- How to set the macro

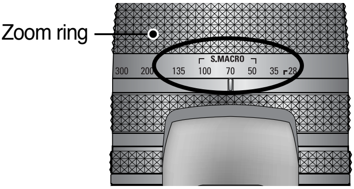
1. Press the Macro (Down) button and the macro icon will display on the LCD.
2. Select a desired macro icon by rotating the Rear jog dial (JOG2).
3. Press the Macro (Down) button to set the setting.



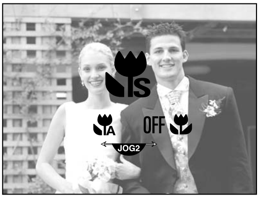
[Macro icons]

- How to set the super macro

1. Rotate the Zoom ring and place the zoom ring at the S.MACRO of the Zoom bar.
2. Press the Macro (Down) button and the macro icon will display on the LCD.



3. Select the super macro icon (IS) by rotating the Rear jog dial (JOG2).
4. Press the Macro (Down) button to set the setting.



[Selecting the super macro]

Macro

INFORMATION

- If you rotate the zoom ring to the zoom mark on the barrel of the lens, macro mode will change to Auto macro (unless it is in S. MACRO mode).
- When the macro mode is selected, it is possible that camera shake will occur. If this is the case, use a tripod to eliminate this.
- When you take a picture within 10cm (MACRO focus), select the FLASH OFF mode.
- When you take a picture within 5cm, the AF may take a time to get exact focus range.

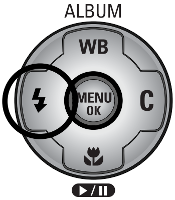
■ Available focusing method, by recording mode. The items indicated by ▨ are default settings. (O: Selectable, X: Not selectable)

Mode	📷	P	A	S	M	My	🎥
Auto	▨ O	▨ O	▨ O	▨ O	▨ O	▨ O	▨ O
Macro	O	O	O	O	O	O	O
Super macro	O	O	O	O	O	O	X
Auto macro	O	O	O	O	O	O	O

Mode	🌙	🍃	👤	⛰	🌷	📄	🌅	🌄	☀	🎆	🏖
Auto	▨ O	O	O	▨ O	O	O	▨ O	▨ O	▨ O	▨ O	▨ O
Macro	O	O	O	O	▨ O	O	O	O	O	O	O
Super macro	O	O	O	O	O	O	O	O	O	O	O
Auto macro	O	▨ O	▨ O	O	O	▨ O	O	O	O	O	O

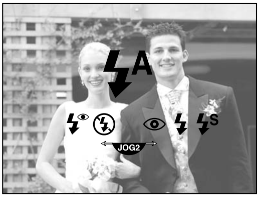
Flash

- You can select a flash according to the shooting conditions.


ALBUM
WB
MENU
OK
C
▶/II

- How to set the flash mode

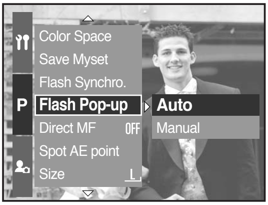
1. Press the Flash button (Left) and flash mode icons display on the LCD.
2. Select a desired flash icon by rotating the Rear jog dial (JOG2).
3. Press the Flash button to set the setting.

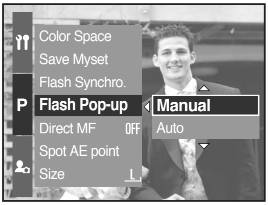


[Flash mode icons]

- How to set the pop-up flash

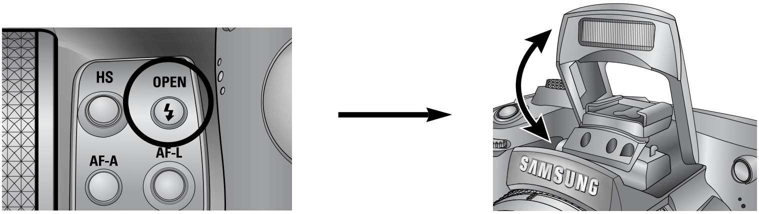
1. Press the Menu button and select the [P] menu tab.
2. Press the Right button and select [Pop-up] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired menu by pressing the Up/ Down button.
   - [Auto] : The flash will pop-up by pressing the shutter button half way down in accordance with the lighting condition.
   - [Manual] : The flash off mode will be selected and the flash will not pop-up automatically. To use lthe flash, press the Pop-up flash button.
4. Press the OK button to set the setting.


P
Color Space
Save Myset
Flash Synchro.
Flash Pop-up
Direct MF OFF
Spot AE point
Size L
Auto
Manual


P
Color Space
Save Myset
Flash Synchro.
Flash Pop-up
Direct MF OFF
Spot AE point
Size L
Manual
Auto

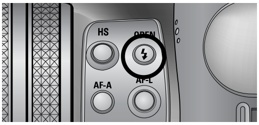
※ When you select the [Manual] menu, press the Pop-up flash button to use the flash.

※ Do not open the pop-up flash by force. It may cause breakdown of the flash. Press the Pop-up button to open the flash.

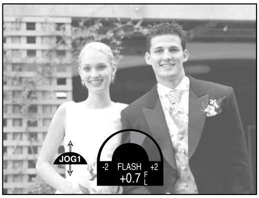

HS
OPEN
AF-A
AF-L
SAMSUNG

Flash

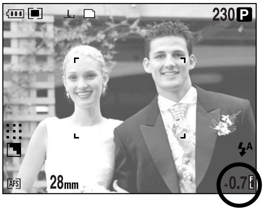
- Flash compensation : The intensity of the flash will be controlled, according to the lighting conditions.


HS
OPEN
AF-A
AF-L

1. Press the Pop-up flash button and the flash will pop up.
2. Press the Pop-up flash button again and a gauge will display as shown alongside.

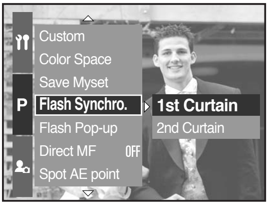

JOG1
-2 FLASH +2
+0.7 F L

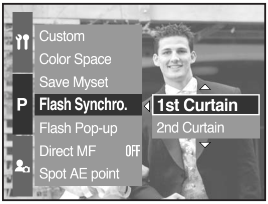
3. Rotate the Front jog dial (JOG1) to select a desired intensity of flash.
4. Press the shutter button half way down to set the setting. The intensity of flash will display on the LCD.


230 P
AFS
28mm
+0.7 F L

- Flash synchronization : You can select a flash timing to take a desired image (In case of the Program mode)

1. Press the Menu button and select the [P] menu tab.
2. Press the Right button and select the [Flash Synchronization] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired menu by pressing the Up/ Down button.
   - [1st curtain] : The flash fires right after the shutter fully opens.
   - [2nd curtain] : The flash fires just before the shutter closes.
4. Press the OK button to set the setting.


Custom
Color Space
Save Myset
P
Flash Synchro.
1st Curtain
2nd Curtain
Flash Pop-up
Direct MF OFF
Spot AE point


Custom
Color Space
Save Myset
P
Flash Synchro.
1st Curtain
2nd Curtain
Flash Pop-up
Direct MF OFF
Spot AE point

Flash

- Flash range (Internal flash) (Unit : cm, ISO 100)

Camera mode	Wide	Tele
Flash range	7 ~ 600	150 ~ 300

※ We recommend using the flash off mode in the macro and super macro mode.

- Flash mode indicator

Icon	Flash mode	Description
⚡A	Auto Flash	If the subject or background is dark, the camera flash will operate automatically. The Fill in flash icon will display in dark condition and the Flash off icon will display in bright condition.
◉	Auto & Red eye reduction	If a subject or background is dark, the camera flash will work automatically and will reduce the red-eye effect by firing the pre-flash.
⚡	Fill in flash	The flash fires regardless of available light. The intensity of the flash will be controlled, according to the prevailing conditions. The brighter the background or subject is, the less intense the flash will be.
⚡S	Slow synchro	The flash will operate in conjunction with a slow shutter speed in order to obtain the correct exposure. When you take an image in a condition with poor light, the camera shake warning indicator (✋) will display on the LCD. We recommend using the tripod.
⚡◉	Fill in & Red eye reduction	The flash fires regardless of available light. The intensity of the flash will be controlled, according to the prevailing conditions and it will reduce the red-eye effect by firing the pre-flash.
⊘	Flash off	The flash does not fire. Select this mode when capturing images in a place or situation where flash photography is prohibited. When you capture an image in poorly lit conditions, the camera shake warning indicator (✋) will display on the LCD. We recommend using the tripod.
⚡	External flash	You can mount an external flash (optional) in accordance with the shooting conditions.

Flash

■ Available flash mode, by recording mode. The items indicated by ▨ are default settings.

	📷	P	A	S	M	My	🎥	☾	⊘	👤	⛰	🌷	📄	🌅	🌄	☀	🎆	⛄
⚡A	▨ O	▨ O	X	X	X	▨ O	X	O	O	O	O	O	O	O	O	O	O	▨ O
👁	O	O	X	X	X	O	X	O	▨ O	▨ O	O	O	O	O	O	O	O	O
⚡	O	O	O	O	O	O	X	O	O	O	O	O	O	O	O	▨ O	O	O
⚡S	X	O	O	X	X	O	X	O	O	O	O	O	O	O	O	O	O	O
⚡👁	O	O	O	O	O	O	X	O	O	O	O	O	O	O	O	O	O	O
⊘⚡	O	O	▨ O	▨ O	▨ O	O	▨ O	▨ O	O	O	▨ O	▨ O	▨ O	▨ O	▨ O	O	▨ O	O
☞	O	O	O	O	O	O	X	O	O	O	O	O	O	O	O	O	O	O

INFORMATION

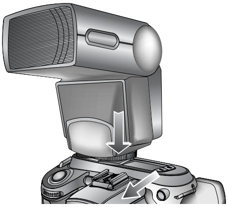
- If the pop up flash doesn't open fully, do not press the shutter button. It may damage the flash.
- Keep the flash clearly or the flash power ratio can be decreased.
- When you press the shutter button after selecting the Auto, Fill in, Slow synchro flash, the flash will fire to check the shooting conditions like the subject's distance and intensity of the flash. Do not move until the second flash fires.
- Using the flash frequently will reduce the life of the battery.
- Under normal operating conditions the charging time for the flash is normally within 5 seconds. If the batteries are weak, the charging time will be longer.
- During the continuous shot, movie clip mode, the flash function will not operate.
- Take photographs within the flash range.
- The image quality is not guaranteed if the subject is too close or highly reflective.
- If you attach the supplied lens hood, it may block the flash.
- When you select the Fill-in flash, the shutter speed can be selected between 15.0 ~ 1/1,000 sec.

External flash (optional)

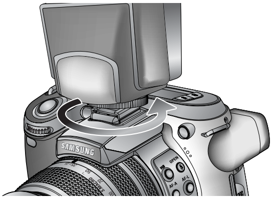
- You can mount an external flash in accordance with the shooting conditions.
- If the external flash is mounted, you can't use the internal flash.
- When the external flash is mounted, it is possible that camera shake will occur. We recommend using a tripod to reduce this.
- Refer to the user manual of the external flash (optional) for more information.

● How to use the external flash

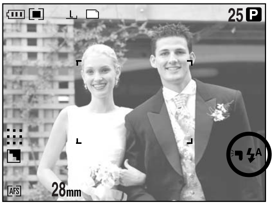
1. Turn off the flash power and mount it to the hot shoe.



2. Settle the flash by rotating the rigged wheel of flash as shown alongside.



3. The external flash icon will display on the LCD as shown alongside.



* When using the external flash, check the flash range displayed on the LCD panel of the flash before taking a picture.
* With attaching the external flash, you can change the intensity of the flash by pressing the Flash compensation button.
* The camera may not function properly when using a flash manufactured by another company.
* We recommend using the exclusive external flash (SEF-42A) and using a flash manufactured by another company is not covered by the Samsung warranty.

Custom settings

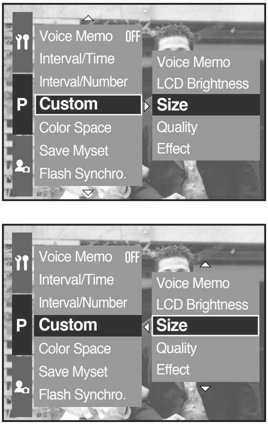
■ You can save your preferences in the [Custom] menu and load it by pressing the Custom button.

● How to set the Custom settings in the Program mode

1. Press the Menu button and select the [P] menu tab.
2. Press the Right button and select the [Custom] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
   - Size
   - Quality
   - Effect
   - Sharpness
   - Voice memo
   - LCD brightness

※ The sharpness and effect can’t be saved in the Auto mode and Scene mode. The sharpness and voice memo can’t be saved in the Movie clip mode.

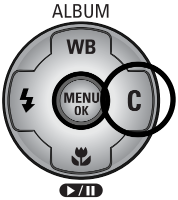
4. Press the OK button to set the setting.

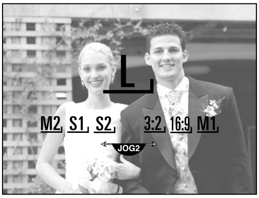

Voice Memo
OFF
Interval/Time
Interval/Number
P
Custom
Color Space
Save Myset
Flash Synchro.
Voice Memo
LCD Brightness
Size
Quality
Effect

[Program mode]

● How to use the Custom button

1. After selecting a desired sub menu in the [Custom] menu, press the Custom button.
2. The selected menu will display on the LCD.
3. Select a desired sub menu by rotating the Rear jog dial (JOG2) and press the OK button to set the setting.

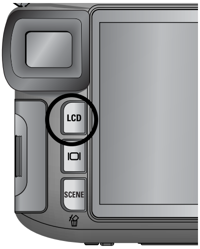

ALBUM
WB
MENU
OK
C
▶/II


L
M2
S1
S2
3:2
16:9
M1
JOG2

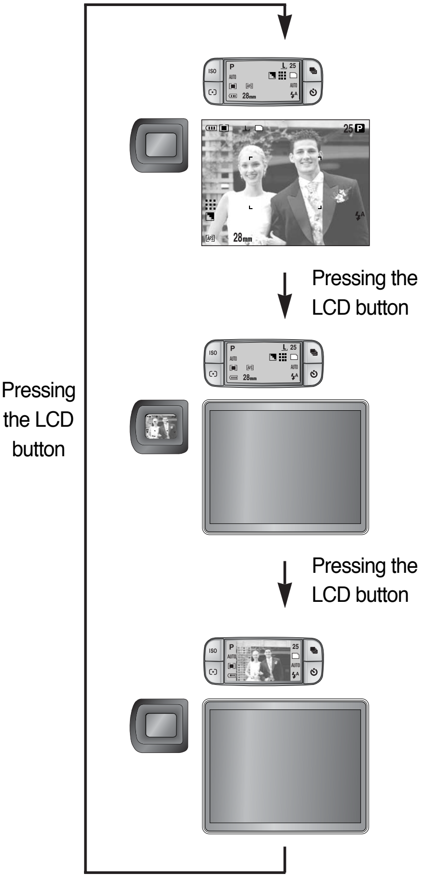
[Size sub menu]

LCD button

- ■ You can change the display of the Rear LCD, Finder LCD and Top LCD.
- ■ Refer to page 26 for more information about each LCD.



● How to change the display status


ISO
P
AUTO
28mm
25
Pressing the LCD button
Pressing the LCD button
Pressing the LCD button

- Rear LCD is on
- Top LCD is on (Icon)
- Finder LCD is off

- Rear LCD is off
- Top LCD is on (Icon)
- Finder LCD is on

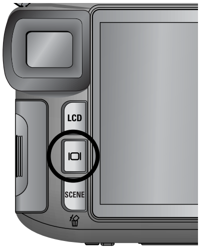
- Rear LCD is off
- Top LCD is on (Icon, Pre-view)
- Finder LCD is off

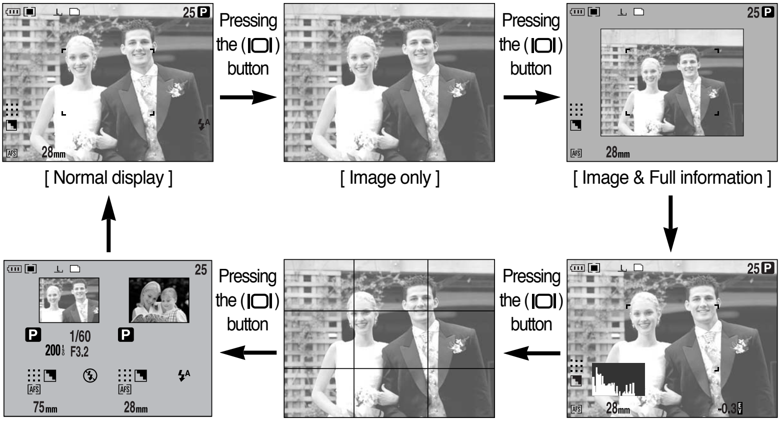
※ When using the Rear LCD, set the shutter speed over 1/250.

※ If you select the Play mode or PictBridge when the top LCD is on, the top LCD is turned off and the Rear LCD is turned on automatically.

Display/ Information button (|□|)

- You can check the recording status in the LCD. Pressing the Display/ Information button will change the display as shown below.
- Some information will not display in the AUTO, MOVIE CLIP and SCENE mode.

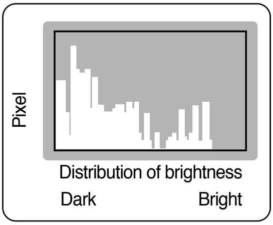



Pressing the (|□|) button
Pressing the (|□|) button
Pressing the (|□|) button
Pressing the (|□|) button
25 P
28mm
1/60
200
F3.2
75mm
-0.3

[Normal display] [Image only] [Image & Full information]

[Current and last shot comparison] [Grid mark] [Histogram]

- Histogram shows you the distribution of brightness in recorded images. If the bars in the histogram are higher towards the right, the image may be too bright. If the bars are higher on the left, the image may be too dark. If the lighting conditions are too bright to check the subject by using the LCD, checking the histogram will enable more precise exposure control for the shots.

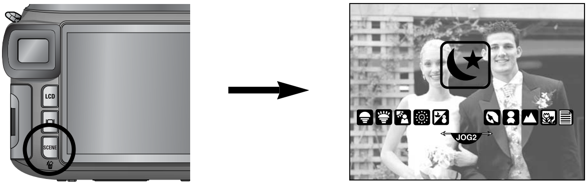


- Current and last shot comparison
  The last captured image displays on the left side of the LCD and the pre-view image displays on the right side of the LCD. You can compare the two images to take next shot.

※ Information displayed on the Finder LCD is the same as the information on the Rear LCD.

SCENE button

- Select the [Scene] submenu to automatically configure optimal settings, depending on the selected scene.
- If you change the camera mode, Macro (p.56), Flash (p.57), High speed shutter (p.49) and Drive mode settings (p.36) set in the Scene mode are changed to default setting automatically.



Sub menu	Icon	Description
[Night]	☾	Use this for shooting still images at night or in other dark conditions.
[Portrait]	☺	To take a picture of a person.
[Children]	👤	To take a picture of fast moving objects, for example, children.
[Landscape]	▲	To take pictures of distant scenery.
[Close up]	✿	Close-up shooting for small objects such as plants and insects.
[Text]	☰	Use this mode to shoot a document.
[Sunset]	◓	For taking pictures of sunsets.
[Dawn]	☀	Daybreak scenes.
[Backlight]	☼	Portrait without shadows caused by backlight.
[Firework]	✺	Firework scenes.
[Beach & Snow]	☀	For ocean, lake, beach and snowscape scenes.

INFORMATION

- When [Night], [Landscape], [Close up], [Text], [Sunset], [Dawn] and [Firework] scene mode are selected, it is possible that camera shake will occur. In this case, take care of the camera shaking.

Diopter

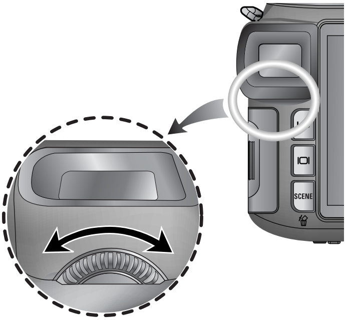
- ■ You can see the Finder LCD clearly by rotating the diopter.
- ■ The range is from -4 to +2 dpt.

- ● Diopter

1. Select the Finder LCD by pressing the LCD button (p.63).

2. While looking though the Finder LCD, rotate the diopter to the left or the right.

3. When you can see the Finder LCD clearly, adjustment is complete.



Using the LCD monitor to adjust the camera settings

- You can use the menu on the LCD to set up recording functions.

INFORMATION

- The menu will not be displayed on the LCD monitor in the following circumstances :
  - When another button is being operated.
  - While image data is being processed. (when the Card in use lamp blinks)
  - When there is no battery capacity.

- The following functions are available, depending on the mode you have selected.

  The items indicated by ▨ are default settings.

Main menu	Sub menu	Camera working mode	Page
Size	3264X2448	📷 P A S M My SCENE	p.70
	3264X2176		
	3264X1840		
	2400X1800		
	1632X1224		
	1024X768		
	640X480		
	640X480	🎥	
	320X240		
	160X120		
Quality	RAW	P A S M My	p.71
	TIFF		
	Super Fine	📷 P A S M My SCENE	
	Fine		
	Normal		
Frame Rate	25 fps	🎥	
	15 fps		

Using the LCD monitor to adjust the camera settings

Main menu	Sub menu	Camera working mode	Page
Effect	Normal	P A S M My 🎥	p.72
	B & W		
	Sepia		
	Negative		
Contrast	+2 ~ 0 ~ -2	P A S M My 🎥	p.73
Saturation	+2 ~ 0 ~ -2		p.74
Sharpness	Soft	P A S M My	p.75
	Normal		
	Vivid		
Voice memo	Off	📷 P A S M My SCENE	p.76
	One Pic		
	All Pics		
Interval/Time	1 ~ 60 min	P A S M My SCENE	p.39
Interval/Number	2 ~ 99 pics		
Custom	LCD Brightness, Size, Quality	📷 P A S M My 🎥 SCENE	p.62
	Effect	P A S M My 🎥	
	Sharpness	P A S M My	
	Voice memo	📷 P A S M My SCENE	
Color Space	sRGB	P A S M My	p.77
	Adobe RGB		
Save Myset	Myset 1	P A S M My	p.78
	Myset 2		
	Myset 3		
Load Myset	Myset 1	My	
	Myset 2		
	Myset 3		

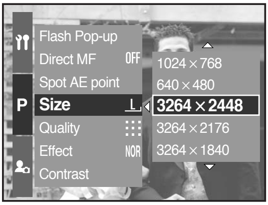
Using the LCD monitor to adjust the camera settings

Main menu	Sub menu	Camera working mode	Page
Flash Synchro.	1st Curtain	P A S M My	p.58
	2nd Curtain		
Flash Pop-up	Auto	P A S M My	p.57
	Manual		
Direct MF	Off	P A S M My	p.48
	On		
Spot AE Point	Center	P A S M My	p.79
	Focus Area		

* Menus are subject to change without prior notice.

Size

- You can select the image size appropriate for your application.



Flash Pop-up
Direct MF OFF
Spot AE point
P Size L
Quality
Effect NOR
Contrast

1024×768
640×480
3264×2448
3264×2176
3264×1840

[Program mode]

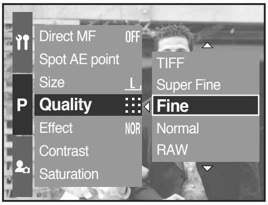
Size / Mode	With Menu button	With Jog dial	Icon
Still image	3264X2448	L	L
	3264X2176	3:2	3:2
	3264X1840	16:9	16:9
	2400X1800	M1	M1
	1632X1224	M2	M2
	1024X768	S1	S1
	640X480	S2	S2
Movie clip	640X480	640	640
	320X240	320	320
	160X120	160	160

INFORMATION

- The higher the resolution, the lower the number of available shots will be because high resolution images require more memory than lower resolution images.

Quality

- You can select the compression ratio appropriate for your application of the captured images.
  The higher the compression ratio, the lower the picture quality.



[Program mode]

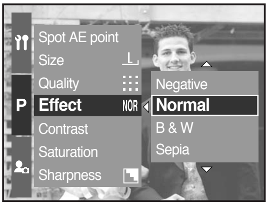
Mode	Still image mode					Movie clip mode	
Icon	RAW	TIFF	▦	⠿	⁛	▦	⠿
Sub menu	RAW	TIFF	S. Fine	Fine	Normal	25 FPS	15 FPS
File format	dng	tif	jpeg	jpeg	jpeg	avi	avi

INFORMATION

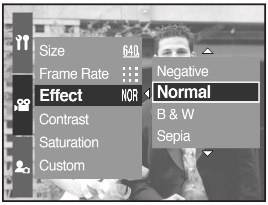
- A RAW file contains the original image information. To edit this file format, you have to use supplied software to edit it.
- The RAW and TIFF file format are for advanced users and provides the best quality. However, large file size reduces number of available pictures to take and increases saving time to the memory card.
- A [Processing!] message is displayed while saving a RAW or TIFF file to the memory card.
- When you select a RAW or TIFF file type, the image size is fixed as 3264X2448 (L).
- The RAW and TIFF file format can't be selected in the SCENE mode.
- This file format complies with the DCF (Design rule for Camera File system).
- JPEG (Joint Photographic Experts Group) : JPEG is the image compression standard developed by the Joint Photographic Experts Group. This type of compression is most commonly used for compressing photos and graphics because it can compress the files efficiently.
- A movie clip can be recorded for as long as the available recording time of the memory capacity allows. (A movie clip sets as 640X480 movie size and 25fps frame rate can be taken up to 30 seconds.)

Effect

- By using the camera's digital processor, it is possible to add special effects to your images.


Spot AE point
Size
Quality
P
Effect
NOR
Contrast
Saturation
Sharpness
Negative
Normal
B & W
Sepia

[Program mode]


Size
640
Frame Rate
Effect
NOR
Contrast
Saturation
Custom
Negative
Normal
B & W
Sepia

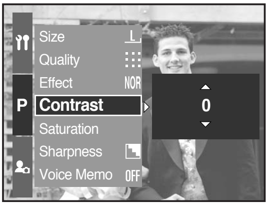
[Movie clip mode]

[Normal] : No effect is added to the image.
[B & W] : Converts the image to black and white.
[Sepia] : Captured images will be stored in a sepia tone (a gradient of yellowish brown colours).
[Negative] : Saves the image in negative mode.

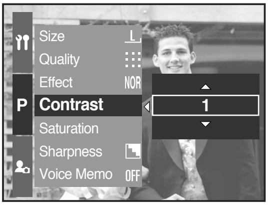
Contrast

- You can change the distinction between light and dark parts of images.
- You can make images with marked differences in light and shadow softer, and those with less differences more vivid.

● How to set the contrast in the Program mode


Size L
Quality
Effect NOR
P
Contrast
0
Saturation
Sharpness
Voice Memo OFF

1. Press the Menu button and select the [P] menu tab.
2. Press the Right button and select the [Contrast] menu by pressing the Up/ Down button.


Size L
Quality
Effect NOR
P
Contrast
1
Saturation
Sharpness
Voice Memo OFF

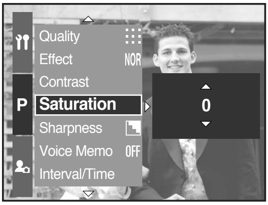
3. Press the Right button and select a desired menu by pressing the Up/ Down button.
   - You can see the changes by pressing the Up/ button.
   - Setting range : +2 ~ 0 ~ -2
4. Press the OK button to set the setting

Saturation

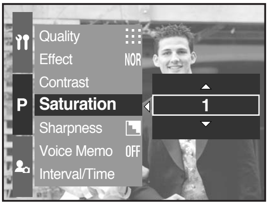
■ You can change the saturation of images.

● How to set the saturation in the Program mode

1. Press the Menu button and select the [P] menu tab.
2. Press the Right button and select the [Saturation] menu by pressing the Up/ Down button.

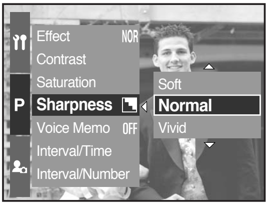

Quality
Effect NOR
Contrast
P
Saturation
0
Sharpness
Voice Memo OFF
Interval/Time

3. Press the Right button and select a desired menu by pressing the Up/ Down button.
   - Setting range : +2 ~ 0 ~ -2
4. Press the OK button to set the setting.


Quality
Effect NOR
Contrast
P
Saturation
1
Sharpness
Voice Memo OFF
Interval/Time

Sharpness

- You can adjust the sharpness of the picture you want to take. You cannot check the sharpness effect on the LCD before you take a picture, because this function is applied only when the captured image is stored in the memory.


Effect NOR
Contrast
Saturation
P Sharpness
Voice Memo OFF
Interval/Time
Interval/Number
Soft
Normal
Vivid

[Program mode]

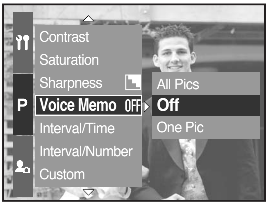
Sub menu	Icon	Description
Soft	◣	The edges of the image are softened. This effect is suitable for editing images on your PC.
Normal	▙	The edges of the image are sharp. This is suitable for printing.
Vivid	▙	The edges of the image are emphasised. The edges will appear sharp, but noise may occur in the recorded image.

Voice memo

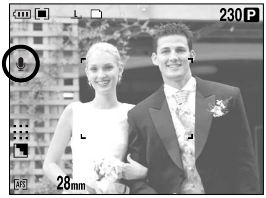
- You can add your voice-over to a stored image.

- Recording a voice memo in the Program mode

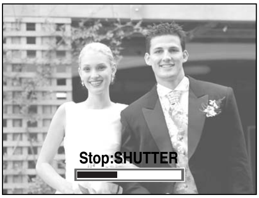
1. Press the Menu button and select the [P] menu tab.
2. Press the Right button and select the [Voice Memo] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired menu by pressing the Up/ Down button.
   - [Off] : cancels the voice memo.
   - [One Pic] : the voice memo is added to a stored image only.
   - [All Pics] : the voice memo is added to all stored image.
4. Press the OK button to set the setting.


P
Contrast
Saturation
Sharpness
Voice Memo OFF
Interval/Time
Interval/Number
Custom
All Pics
Off
One Pic

[Program mode]


230
P
28mm
AFS

[Preparing for voice memo]


Stop:SHUTTER

[Recording voice memo]

5. If the voice memo indicator is displayed on the LCD, the setting is complete. Press the shutter button. The picture is stored on the memory card.
6. Voice memo will be recorded for ten seconds from the moment the picture is stored. In the middle of the sound recording, pressing the shutter button will stop the voice memo.

INFORMATION

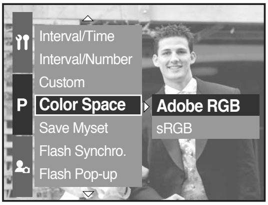
- A distance of 40cm between you and the camera (microphone) is the best distance to record sound.

Colour space

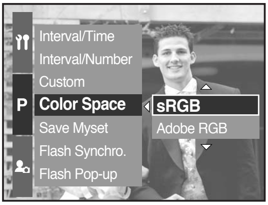
- ■ You can select how the colours are reproduced (sRGB, Adobe RGB) on the monitor or printer.
- ■ Adobe RGB has more colour spectra than sRGB and it is suitable for printing and computer graphics.

● How to set the Colour space in the Program mode

1. Press the Menu button. and select the [P] menu tab.
2. Press the Right button and select the [Color space] menu by pressing the Up/ Down button.


Interval/Time
Interval/Number
Custom
P
Color Space
Save Myset
Flash Synchro.
Flash Pop-up
Adobe RGB
sRGB

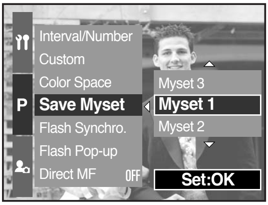
3. Press the Right button and select a desired menu by pressing the Up/ Down button.
   - sRGB/Adobe RGB
4. Press the OK button to set the setting.


Interval/Time
Interval/Number
Custom
P
Color Space
Save Myset
Flash Synchro.
Flash Pop-up
sRGB
Adobe RGB

Save/ Load a specific camera configuration (MySET)

- Use the MySET mode to save frequently used camera settings (Save Myset) and use it later (Load Myset).

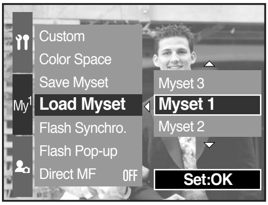
- Saving the camera configuration : Available in the PROGRAM, A, S, M shooting mode and MySET mode.


Interval/Number
Custom
Color Space
P
Save Myset
Flash Synchro.
Flash Pop-up
Direct MF
OFF
Myset 3
Myset 1
Myset 2
Set:OK

[Program mode]

1. Use the camera buttons and menu to set the desired camera configuration.
2. Press the menu button in any mode except AUTO, MOVIE CLIP and SCENE mode. Select the [P] menu tab.
3. Press the Right button and select the [Save Myset] menu by pressing the Up/ Down button.
4. Press the Right button and select the desired MySET slot number to save by pressing the Up/ Down button.
5. Press the OK button and a confirmation window will display. Select [Yes] menu and press the OK button to save the current configuration in the selected MySET slot and close the menu.

- Loading the saved camera configuration : available in the MySET shooting mode.


Custom
Color Space
Save Myset
My1
Load Myset
Flash Synchro.
Flash Pop-up
Direct MF
OFF
Myset 3
Myset 1
Myset 2
Set:OK

[MySET mode]

1. Turn the Mode dial to select the MySET shooting mode and press the Menu button.
2. Press the Menu button and select the [My^1] menu.
3. Press the Right button and select the [Load Myset] menu by pressing the Up/ Down button.
4. Press the Right button and select a MySET slot number to load by pressing the Up/ Down button.
5. Press the OK button and a confirmation window will display. Select the [Yes] menu and press the OK button to set the setting.

* The current MySET slot number is displayed in the top left of the LCD.

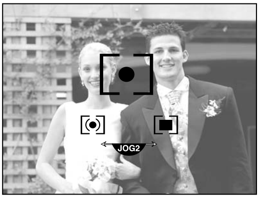
※ Saving is available for the following camera functions.
Functions using the camera buttons - Macro, flash, white balance, ISO, Exposure value, Aperture value and Shutter speed.
Functions using the menu screen - Size, quality, effect and sharpness.

Spot AE (Auto Exposure) point

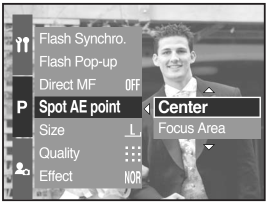
- You can select a spot AE point where the brightness is calculated.

- How to set the spot AE point in the Program mode

1. Select the spot metering mode (p.43).
2. Press the Menu button and select the [P] menu tab.



3. Press the Right button and select the [Spot AE point] menu by pressing the Up/ Down button.
4. Press the Right button and select a desired menu by pressing the Up/ Down button.


Flash Synchro.
Flash Pop-up
Direct MF OFF
P
Spot AE point
Size L
Quality
Effect NOR
Center
Focus Area

- [Center] : The brightness is calculated based on the + marked area placed on the centre of the Rear LCD. Select this menu when the subject is in the backlight shooting condition or in the shadow.
- [Focus Area] : The brightness is calculated based on where the auto focus frame is placed. If there is a gap of brightness between the subject and centre part of the LCD, select this menu. Refer to page 46 for more information about how to set the Spot AE point. It is the same as those for AF-A setting up.

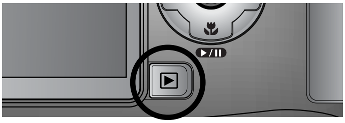
5. Press the OK button to set the setting.

Starting play mode

- Turn the camera on and select Play mode by pressing the play mode button (▶). The camera can now play back the images stored in the memory.
- If you have turned on the camera by pressing the POWER button, you can press the PLAY MODE button once to switch to Play mode and press it again to switch to Recording mode.
- You can turn the power on with the play mode button. The camera is turned on in play mode. Press the play mode button again to switch to Recording mode.
- You can set up the PLAY mode function by using the camera buttons and LCD.
- If you press the play mode button with turning on the Top LCD, the last image stored on the memory is displayed on the Rear LCD.

- Playing back a still image

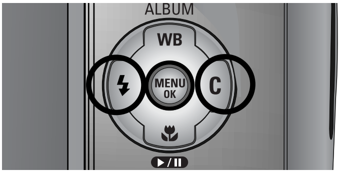
1. Select the PLAY mode by pressing the play mode button (▶).



2. The last image stored on the memory is displayed on the LCD.

16:9
100-0009
2005.07.01
13:00 PM
1/30
F2.2
100
28mm
-2.0
LCD
SCENE
AE-L
ALBUM
WB
MENU OK
C

3. Select an image that you want to view by pressing the LEFT/ RIGHT button.
   ※ Press and hold the LEFT or RIGHT button to play back the images quickly.



INFORMATION

- Manner mode : Pressing the play mode button for more than 2 seconds changes the buzzer and start-up sound setting to OFF, even though you may have set these to ON. Refer to page 120 (Sound) and 126 (Start up sound) for more information.
- Even if the camera's power is off, you can start the play mode by pressing the play mode button.

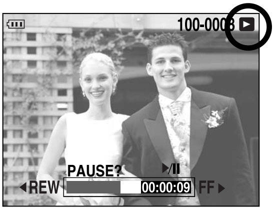
Starting play mode

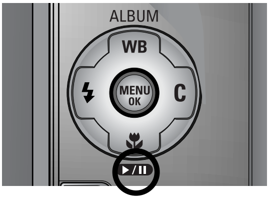
■ Playing back a movie clip

Steps from 1-2 are the same as those to play back a still image.

3. Select the recorded movie clip that you want to play back by using the Left/ Right button.
4. Press the Play & Pause button (▶/II) to play back a movie clip file.

- To play back or pause a movie clip. Press the Play & Pause button.
- To rewind the movie clip while it is playing, press the Left button. To fast forward the movie clip, press the Right button.
- Whenever you press the Left/ Right button while the movie clip is playing the rewinding/ fast forwarding speed will be 2, 4, 8 times faster.
  Pressing the Play & Pause button will reduce the speed.
- To stop playback of the movie clip, press the Play & Pause button, and then press the Left or Right button.



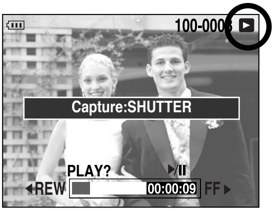


■ Movie clip capture function : capture still images from the movie clip.

● How to capture the movie clip

Steps 1-2 are the same as those for playing back a still image.

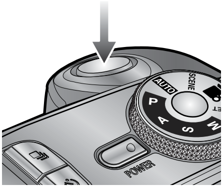
3. Select the recorded movie clip that you want to play back by using the Left/ Right button.
4. Press the Play & Pause button to play back the movie clip.



[Pause]

5. Press the Play & Pause button while playing the movie clip. Then press the Shutter button.
6. The paused movie clip is saved in a new file name.

* The captured movie clip file has the same size as the original movie clip (640X480, 320X240, 160X120).

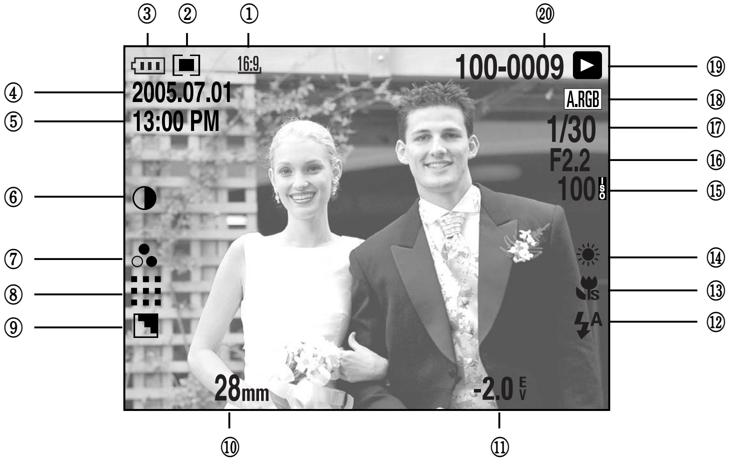


[Press the shutter button]

LCD monitor indicator

Rear LCD/ Finder LCD

- The LCD displays shooting information about the displayed image.
- Refer to page 63 for more information about selecting an LCD.


③
②
①
⑳
16:9
100-0009
④
2005.07.01
⑤
13:00 PM
⑲
⑱
A.RGB
⑰
1/30
⑯
F2.2
⑮
100 ISO
⑥
⑦
⑧
⑨
⑭
⑬
⑫
A
28mm
-2.0 EV
⑩
⑪

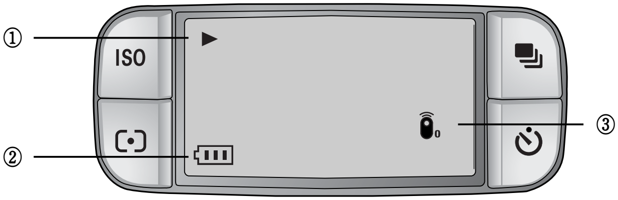
[Image & Full information]

No.	Description	Icon	Page
1	Image size	L, 3:2, 16:9, M1, M2, S1, S2, 640, 320, 160,	p.70
2	Metering	[■] [(•)] [•]	p.43
3	Battery status	▮▮▮ ▮▮ ▮ ▯	p.17
4	Date	2005.07.01	p.117
5	Time	13:00 PM	p.117
6	Contrast	◑	p.73
7	Saturation	● ○●	p.74
8	Quality	RAW TIFF ⁞⁞⁞ ⁞⁞ ⁚	p.71
9	Sharpness	◪ ◩ ◸	p.75
10	Focal Length	28mm	p.44
11	Exposure compensation	-2.0 EV	p.50

LCD monitor indicator

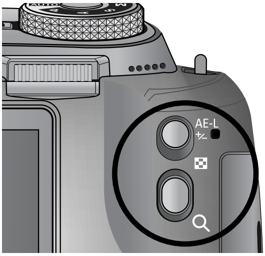
12	Flash	◉ ⚡ ⊘	p.57~60
13	Macro	✿ ✿IS ✿A	p.55~56
14	White balance	AUTO ☀ ☁ ⚏ ⚏ ✱ K 1 2	p.53~54
15	ISO	AUTO 50 100 200 400	p.42
16	Aperture value	F2.2	p.30~31
17	Shutter speed	1/30	p.30~31
18	Colour space	A.RGB	p.77
19	Play mode	▶	p.80
20	Folder name and Stored image number	100-0009	p.112

Top LCD



No.	Description	Icon
1	Play mode	▶
2	Battery status	▮▮▮ ▮▮ ▮ ▯
3	Remote control	0

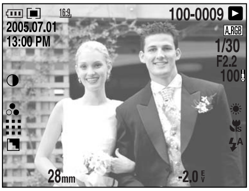
Thumbnail button/ Enlargement button



- In Play mode, you can use the buttons and the jog dial on the camera to conveniently set up the Play mode functions.
- You can view multiple pictures, enlarge a selected picture, and crop and save a selected area of an image.

● Thumbnail display

1. While an image is displayed full screen, press the Thumbnail button (▦).
2. The thumbnail display will highlight the image that had been showing at the time the thumbnail mode was selected.

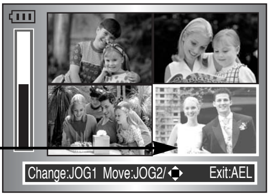


[Normal display mode]

Pressing the Thumbnail button (▦)

Pressing the Thumbnail button (▦)

Highlighted image

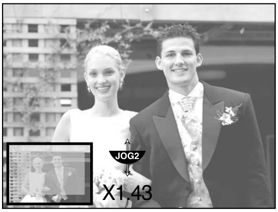


[Thumbnail display mode]

3. Change the number of thumbnails by rotating the Front jog dial (JOG1). You can select 4, 9, 16, 25 thumbnails.
   - Rotating the Front jog dial to left will reduce the number of thumbnails.
   - Rotating the Front jog dial to right will increase the number of thumbnails.
4. Rotate the Rear jog dial (JOG2) or press the Up/ Down/ Left/ Right button to move to a desired image.

● Image enlargement

1. Select an image that you want to enlarge and press the Enlargement button (🔍).
2. You can change the enlargement rate by rotating the Rear jog dial (JOG2) or pressing the Thumbnail/ Enlargement button.
   - Rotating the Rear jog dial to the right or pressing the Enlargement button will increase the enlargement rate.
   - Rotating the Rear jog dial to the left or pressing the Thumbnail button will reduce the enlargement rate.
3. Different parts of the image can be viewed by pressing the Up/ Down/ Left/ Right button.



Thumbnail button/ Enlargement button

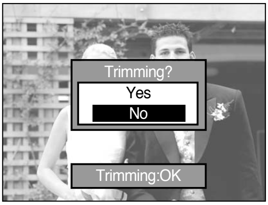
- The maximum enlargement rate in proportion to the image size.

Image size	L	3:2	16:9	M1	M2	S1	S2
Maximum enlargement rate	×10.20	×10.20	×10.20	×6.82	×4.64	×4.00	×3.33

INFORMATION

- You can tell whether the image displayed is an enlarged view by checking the image enlargement indicator shown at the bottom left of the LCD. (If the image is not an enlarged view, the indicator will not be displayed.) You can also check the area of enlargement.
- RAW, TIFF and Movie clip files can't be enlarged.
- If an image is enlarged, a loss of quality may occur while the image is playing back.
- During the image enlargement, you can delete the image by pressing the delete button.
- When a rotated image (refer to page 123, Auto rotating sensor) is enlarged, the image is rotated vertically and enlarged. After completing the enlargement, the image will be rotated horizontally.

- Trimming : You can extract part of the image that you want and save it separately.

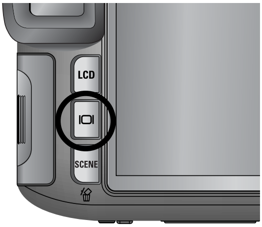


1. Enlarge an image by rotating the Rear jog dial (JOG2) and press the Menu button.
2. Press the Menu button and a message will display to crop the image.
3. Select a desired sub menu by pressing the Up/ Down button and press the OK button.

- [Yes] : The trimmed image will save as a new file name, and display on the LCD.
- [No] : The trimming menu will disappear.

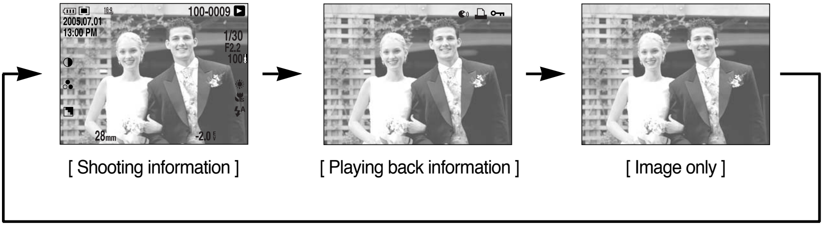
※ If there is little memory space to save the trimmed image, the image can't be trimmed.

Display/ Information button (▢)



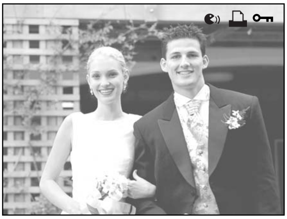
- The shooting and playing back information will be displayed on the LCD. The last image stored in the memory is displayed on the LCD by pressing the play mode button.

- Pressing the Display/ Information button(▢) in the PLAY mode will change the display as shown below.


2005.07.01
13:00 PM
16:9
100-0009
1/30
F2.2
100
28mm
-2.0

[Shooting information] [Playing back information] [Image only]

- Refer to page 82 for more information about the shooting information.
- The following is playing back information.

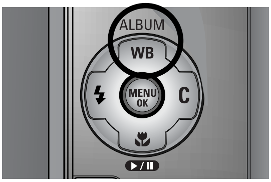


- [🔊] : Voice memo

- [🖶] : DPOF indicator

- [⚷] : Protect indicator

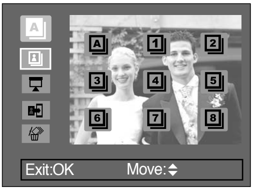
Album mode



- You can organise the captured still images into albums.
- This camera has 8 albums and each album can take up to 100 images.
- The album menu loading time depends on the memory card type.

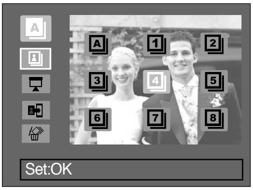
- How to use the album

- Selecting the album
  1. In the play mode, press the Album (Up) button.



Exit:OK Move:◆

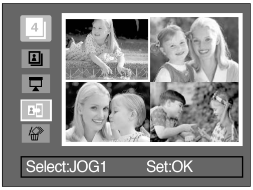
  2. Select the [ ] menu by pressing the Up/ Down button and press the Right button.



Set:OK

  3. Select a desired album by pressing the Up/ Down/ Left/ Right buttons and press the OK button.

- Inserting still images into the album
  1. Select an album.
  2. Select the [ ] menu by pressing the Up/ Down button and press the Right button.

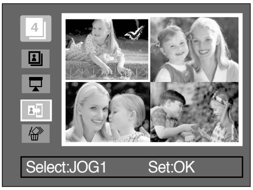


Select:JOG1 Set:OK

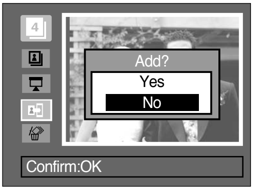
Album mode

3. Select the still images you wish to add by pressing the Up/ Down/ Left/ Right buttons and rotate the Front jog dial (JOG1).
   V marks are displayed on the selected images.

* To cancel the selection, rotate the Front jog dial (JOG1) again.



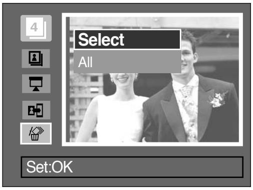
4. Press the OK button and a confirmation window will display. Select a desired sub menu by pressing the Up/ Down button and press the OK button.
   [Yes] : Inserts the selected images into the album.
   [No] : Cancels the insertion of images.

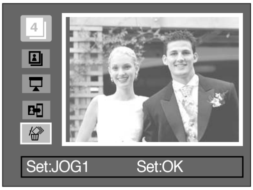


- Removing still images from the album

1. Select an album.
2. Select the [🗑] menu by pressing the Up/ Down button and press the Right button.
3. Select a desired sub menu and press the OK button.
   [Select] : Specific still images in the album can be removed.
   [All] : All of the still images in the album will be removed.

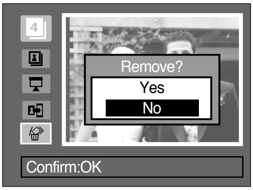
※ If [Select] is selected :
- Select images that you want to remove by pressing the Left/ Right buttons and rotate the Front jog dial (JOG1). V marks are displayed on the selected images.





4. Press the OK button and a confirmation window will display. Select a desired sub menu by pressing the Up/ Down button and press the OK button.
   [Yes] : Removes the selected images from the album.
   [No] : Cancels the removal of images.

* The removed images are not deleted from the memory, but just removed from the album.

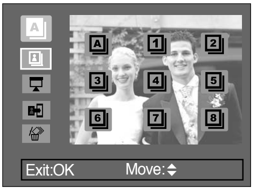


Album mode

- Playing back the albums

◎ Playing back all of the albums

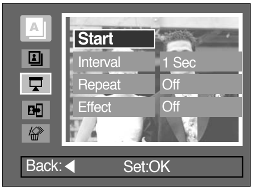
1. Select [A] menu and press the OK button.
   All of the albums will be selected.



2. Select the [ ] menu by pressing the Up/ Down button and press the Right button.

※ You can select [Start], [Interval], [Repeat] and [Effect] menus.

- [Start] : Start the slide show
- [Interval] : Set the slide show play interval
- [Repeat] : Choose to repeat the slide show after finishing the first cycle.
- [Effect] : Unique screen effects can be used for the slide show.


Start
Interval 1 Sec
Repeat Off
Effect Off

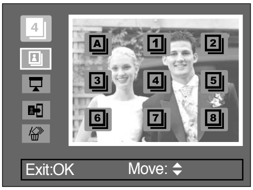
3. Select the [Start] menu by pressing the Up/ Down button and press the OK button to start the slide show.
4. To stop the slide show, press the MENU/ OK button.

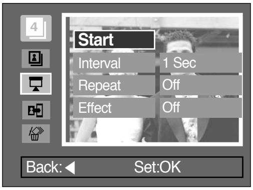
◎ Playing a desired album

1. Select a desired album and press the OK button.
2. Select the [ ] menu by pressing the Up/ Down button and press the Right button.

※ You can Select the [Start], [Interval], [Repeat] and [Effect] menu.

3. Select the [Start] menu and press the OK button to start the slide show.
4. To stop the slide show, press the MENU/ OK button.




Start
Interval 1 Sec
Repeat Off
Effect Off

INFORMATION

- If an image is deleted from the memory, the image doesn't display on an album.
- An image can't be added twice into the same album.
- An image can be added into the different albums.

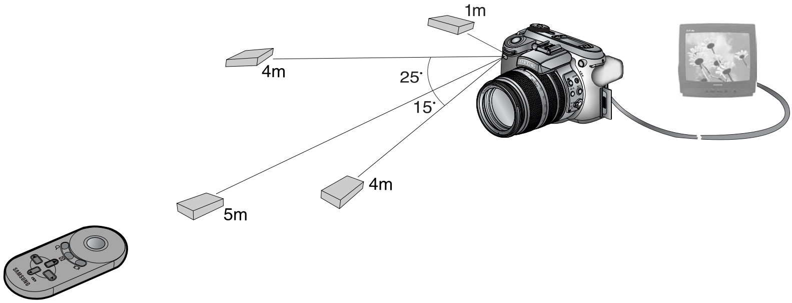
5-function button

- The 5 function button activates the following.

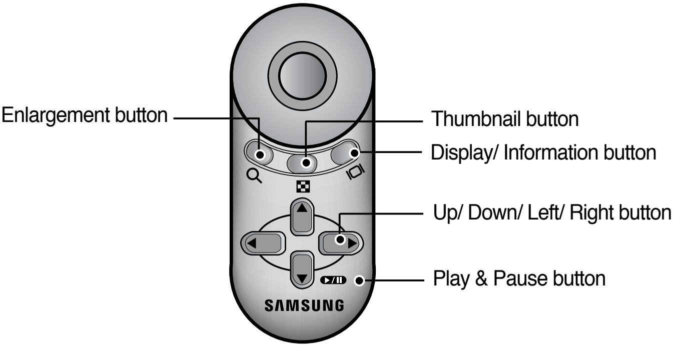
  - Up button : While the menu is showing, press the Up button to move the cursor up the menu. When the menu is not displayed on the LCD, the Up button operates as the Album button.
  - Down button : While the menu is showing, press the Down button to move the cursor down. If a still image with a voice memo or a movie clip is playing, pressing the Down button make the files play back or pause.
  - Left button : While the menu is showing, press the Left button to select the menu tab to the left of the cursor. When the menu is not displayed, press the Left button to select the previous image.
  - RIGHT button : While the menu is showing, press the Right button to select the menu tab to the right of the cursor. When the menu is not displayed, press the Right button to select the next image.
  - Menu/ OK button : When the menu is displayed on the LCD, the Menu/ OK button is used for confirming data that is changed by using the 5 function button. When you press the MENU button, the play mode menu will be displayed on the LCD monitor. Pressing it again will return the LCD to the initial display.

Remote control

- After connecting the camera with an external monitor, you can see the captured image by using the remote control.
- Remote control is optional in some countries.


1m
4m
25˚
15˚
4m
5m
SAMSUNG

- In play mode, you can use the remote control to set up the play mode functions.


Enlargement button
Thumbnail button
Display/ Information button
Up/ Down/ Left/ Right button
Play & Pause button
SAMSUNG

- See below for operation of buttons

  - Enlargement button : In play mode, this button enlarges the selected image.
In the thumbnail mode, the number of thumbnails are reduced by pressing this button (Selectable number of thumbnails : 4, 9, 16, 25).
  - Thumbnail button : If an image is enlarged, pressing this button will reduce the enlargement rate. In play mode, you can view multiple pictures by pressing this button. In the thumbnail mode, the number of thumbnails are increased by pressing this button (Selectable number of thumbnails : 4, 9, 16, 25).

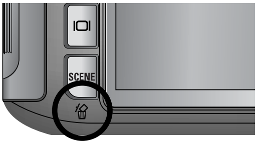
- Display/ Information button : In play mode, you can view the information of the selected image by pressing this button.
- Up/ Down/ Left/ Right button : In play mode, you can select a still image or movie clip by pressing the Left/ Right button.
  In play mode, different parts of the enlarged image can be viewed by pressing these buttons.
  In the thumbnail mode, you can move to a desired image by pressing these buttons.
- Play & Pause button : If a still image with a voice memo or a movie clip is playing, pressing this button make the files play back or pause.

Delete button (🗑)

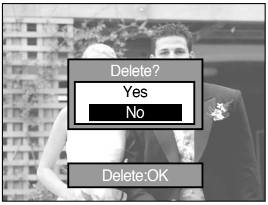
■ This deletes images stored on the memory.

● Deleting Images in Play Mode

1. Select an image that you want to delete by pressing the Left/ Right button and press the Delete (🗑) button.



2. A message will display as shown alongside on the LCD.
3. Select the [Yes] and press the OK button to delete the selected image.



INFORMATION

● While the delete menu is displaying, you can select a different image by pressing the Left/ Right button.

● Before deleting images from the camera, you should protect (p.98) or download images (p.145~146, 152~153) to your computer that you wish to keep.

Setting up the play back function using the LCD monitor

■ PLAY mode functions can be changed by using the LCD monitor.
Press the Menu button and select the [▶] menu tab. The play back menu will display.
The menus you can set up in Play mode are as follows. To capture an image after setting up the play menu, press the Play mode button or shutter button.

Menu tab	Main menu	Sub menu	Secondary menu	Page
▶	Slide Show	Interval	1, 3, 5, 10 sec	p.96~97
		Repeat	Off, On	
		Effect	Off	
			Effect 1,2,3	
		Start	-	
	Protect	Select	Unlock/ Lock/ Cancel	p.98
		All Pics		
	Delete	Select	-	p.99
		All Pics	-	
	Voice Memo	Off		p.100
		On		
	Resize	7M	-	p.101
		6M	-	
		5M	-	
		4M	-	
		3M	-	
		2M	-	
		1M	-	
		640X480	-	
		User Image	-	
	Rotate	Right 90°	-	p.102
		Left 90°	-	
		180°	-	
	DPOF/ Standard	Select/ All Pics/ Cancel	-	p.103~104
	DPOF/ Index	No/ Yes	-	
	DPOF/ Size	Select/ All Pics/ Cancel	-	

Setting up the play back function using the LCD monitor

- This menu is available while the camera is connected to a PictBridge supporting printer (direct connection to the camera, sold separately) with a USB cable.

Menu tab	Main menu	Sub menu	Secondary menu	Page
	Images	One Pic	-	p.106
		All Pics	-	
	Auto Set	No	-	p.107
		Yes	-	
	Custom Set	Paper Size	Auto	p.107
			Postcard	
			Card	
			4X6	
			L	
			2L	
			Letter	
			A4	
			A3	
		Layout	Auto	
			Full	
			1	
			2	
			4	
			8	
			9	
			16	
		Paper Type	Auto	
			Plain	
			Photo	
			Fastphoto	

Setting up the play back function using the LCD monitor

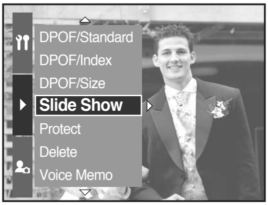
Menu tab	Main menu	Sub menu	Secondary menu	Page
	Custom Set	Quality	Auto	p.107
			Draft	
			Normal	
			Fine	
		Date Print	Auto	
			Off	
			On	
		File Name	Auto	
			Off	
			On	
	Print	Standard	-	p.108
		Index	-	
	DPOF Print	No	-	p.108
		Yes	-	
	Reset	No	-	p.109
		Yes	-	

※ Menus are subject to change without prior notice.

Starting the slide show

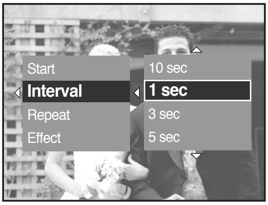
- Images can be displayed continuously at pre-set intervals. You can view the slide show by connecting the camera to an external monitor.

1. In play mode, press the Menu button and select the [▶] menu tab.
2. Press the Right button and select the [Slide Show] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.


DPOF/Standard
DPOF/Index
DPOF/Size
Slide Show
Protect
Delete
Voice Memo

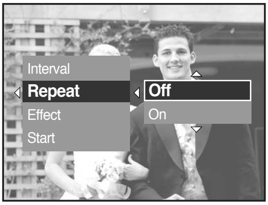
- Setting play interval : Set the slide show play interval.

1. Select the [Interval] menu by pressing the Up/ Down button and press the Right button.
2. Press the Up/ Down button to select the desired interval.
3. Press the OK button to set the setting.


Start
Interval
Repeat
Effect
10 sec
1 sec
3 sec
5 sec

- Repeat setting : setting the slide show to repeat after the first cycle.

1. Select the [Repeat] menu by pressing the Up/ Down button and press the Right button.
2. Select a desired sub menu by pressing the Up/ Down button.
   [Off] Selected : The slide show is closed after one cycle.
   [On] selected : The slide show is repeated until cancelled.
3. Press the OK button to set the setting.


Interval
Repeat
Effect
Start
Off
On

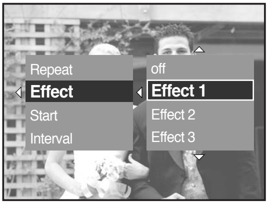
INFORMATION

- The loading time depends on the image size and quality.
- While the slide show is playing, only the first frame of a movie clip file is displayed.

Starting the slide show

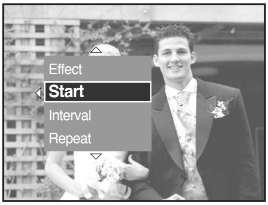
- Configure slide show effects : Unique screen effects can be used for the slide show.

1. Select the [Effect] sub menu by pressing the Up/ Down button and press the Right button.
2. Use the Up/ Down button to select the type of effect.
   [Off] : Normal display.
   [Effect 1] : Image moves from the top left.
   [Effect 2] : The image slides diagonally from top left to bottom right.
   [Effect 3] : Image is displayed slowly from the centre outwards.
3. Press the OK button to set the setting.



- Start the slide show : The slide show can start only in the [Start] menu.

1. Select the [Start] menu by pressing the Up/ Down button.
2. Press the OK button to start the slide show.
   - Press the Play & Pause button to pause the slide show.
   - Press the Play & Pause button (▶/II) again to resume the slide show.
   - To stop the slide show, press the Play & Pause button, and then press the Left or Right button.



Protecting images

■ This is used to protect specific shots from being accidentally erased (Lock). It also unprotects images that have been previously protected (Unlock).

● How to protect images

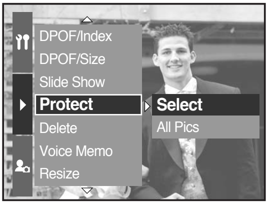
1. In play mode, press the Menu button.
2. Select the [▶] menu tab and press the Right button.
3. Select the [Protect] menu by pressing the Up/ Down button and press the Right button.
4. Select a desired sub menu by pressing the Up/ Down button and press the Right button.

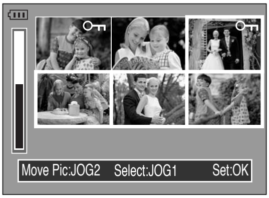
[Select] : Selection window for an image to be protected/ released is displayed.

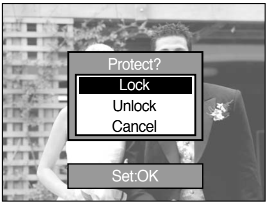
- Rear jog dial (JOG2) : Select an image
- Front jog dial (JOG1) : Protect/ release the image
- OK Button : Your changes will be saved and the menu will disappear.

[All Pics] : Protect/ release all saved images

- [Lock] : Protect all saved images
- [Unlock] : Unprotect all save images
- [Cancel] : The confirmation window will disappear.
- OK button : The changed settings are saved and menu will disappear.

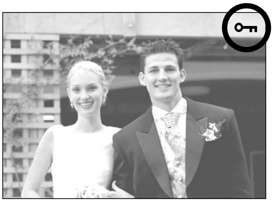

DPOF/Index
DPOF/Size
Slide Show
Protect
Delete
Voice Memo
Resize
Select
All Pics


Move Pic:JOG2 Select:JOG1 Set:OK


Protect?
Lock
Unlock
Cancel
Set:OK

- If you protect an image, the protect icon will be displayed by pressing the Display/ Information button on the LCD. (An unprotected image has no indicator)

- An image in LOCK mode will be protected from the delete function, but will NOT be protected from the Format function.



Deleting images

- ■ Of all the files stored in the memory card, the unprotected files in the DCIM subfolder will be deleted. Remember that this will permanently delete unprotected images.
  Important shots should be stored on a computer before deletion takes place.
  The startup image is stored in the camera's internal memory (i.e., not on the memory card) and it will not be deleted even if you delete all files on the memory card.

● How to delete images

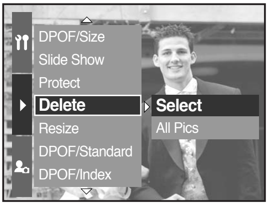
1. In play mode, press the Menu button.
2. Select the [▶] menu tab and press the Right button.
3. Select the [Delete] menu and press the Right button.
4. Select a desired sub menu by pressing the Up/ Down button and press the Right button.

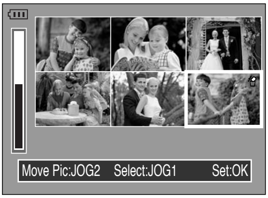
[Select] : Selection window for an image to delete is displayed.

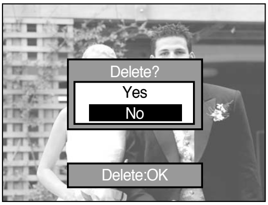
- Rear jog dial (JOG2) : Select an image.
- Front jog dial (JOG1) : Select the image for deletion.
- OK button : Press the OK Button to display the confirmation message. Select the [Yes] menu and press the OK Button again to delete [🗑] marked images.

[All Pics] : Displays confirmation window. Select the [Yes] menu and press the OK button to delete all unprotected images. If there are no protected images, a [No Image!] message will display.

5. After deletion, the screen will be changed to the play mode screen.


DPOF/Size
Slide Show
Protect
Delete
Resize
DPOF/Standard
DPOF/Index
Select
All Pics


Move Pic:JOG2
Select:JOG1
Set:OK

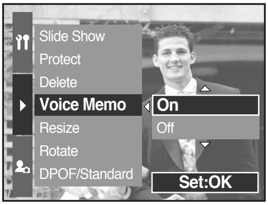

Delete?
Yes
No
Delete:OK

Voice memo

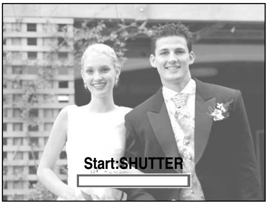
■ You can add your voice to a stored still image.

● How to add a voice to a still image

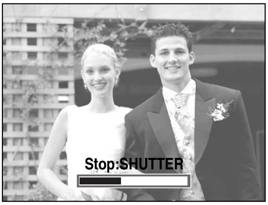
1. Select an image that you wish to add sound to by pressing the Left/ Right button.
2. Select the [▶] menu by pressing the Menu button and press the Right button.
3. Select the [Voice Memo] menu by pressing the Up/ Down button and press the Right button.
4. Select the [On] menu by pressing the Up/ Down button and press the OK button.



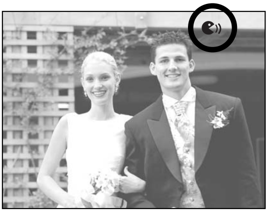
5. The camera is now ready to record a voice memo.



6. Press the shutter button to start recording and voice will be recorded to the still image for 10 seconds. While the voice is recording, the recording status window will be displayed as shown alongside.
7. The recording can be stopped by pressing the shutter button again.



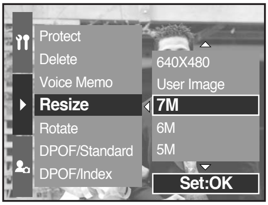
8. The (🔊) icon will be displayed on the LCD by pressing the Display/ Information button after voice memo recording has finished.



- Voice memos can’t be recorded onto movie clip files.
- A distance of 40cm between you and the camera (microphone) is the best distance to record sound.
- The voice memo will be saved in *.wav format, but has the same file name as the still image to which it corresponds.
- If you add a new voice memo to the still image that already has a voice memo, the existing voice memo will be erased.

Resize

- Change the resolution (size) of pictures taken. Select the [User Image] to save an image to be the start-up image. The resized image will have a new file name.
  1. In play mode, press the Menu button and select the [▶] menu tab.
  2. Press the Right button and select the [Resize] menu by pressing the Up/ Down button.
  3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
  4. Press the OK button and a confirmation window will display.
  5. Select the [Yes] menu and press OK button to save the resized image.



- Image Resize Types

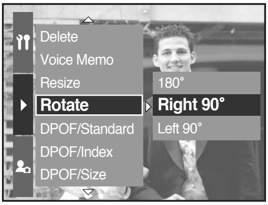
Size	7M	6M	5M	4M	3M	2M	1M	640 X480	User Image
3264X2448	O	O	O	O	O	O	O	O	O
3264X2176	X	X	X	X	X	X	X	X	X
3264X1840	X	X	X	X	X	X	X	X	X
2400X1800	X	X	X	O	O	O	O	O	O
1632X1224	X	X	X	X	X	O	O	O	O
1024X768	X	X	X	X	X	X	X	O	O
640X480	X	X	X	X	X	X	X	X	O

INFORMATION

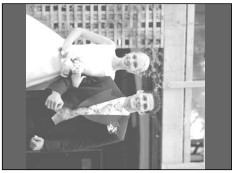
- A large sized image can be resized to a smaller sized image, but not vice versa.
- 3264X2176(3:2) and 3264X1840(16:9) image size files, RAW, TIFF and Movie clip (AVI) files can’t be resized.
- You can change the resolution of only those files compressed in the JPEG 4:2:2 format.
- The resized image will have a new file name. The [User Image] image is stored not on the memory card but on the internal memory.
- If the memory capacity is insufficient to store the resized image, a [Card Full!] message will display on the LCD and the resized image will not be stored.

Rotating an image

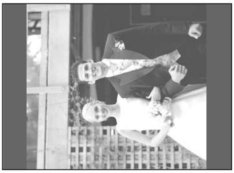
- You can rotate the stored images by various degrees.



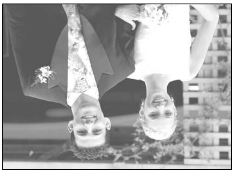
1. In play mode, press the Menu button and select the [▶] menu.
2. Press the Right button and select the [Rotate] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
   [Right 90°] : Rotate picture in a clockwise direction
   [Left 90°] : Rotate picture in a counter clock-wise direction
   [180°] : Rotate picture 180 degrees



[Right 90°]



[Left 90°]



[180°]

4. Press the OK button and a confirmation window will display.
5. Select the [Yes] menu and press the OK button. A rotated image will display on the LCD and the menu will disappear. There will be empty space to the left and right of the rotated image.

INFORMATION

- The rotated image can’t be enlarged or trimmed.
- RAW, TIFF and movie clip can’t be rotated.

DPOF

- DPOF(Digital Print Order Format) allows you to embed printing information on your memory card's MISC folder. Select the pictures to be printed and how many prints to make.
- The DPOF indicator will display on the LCD when an image that has DPOF information plays back. Images can then be printed on DPOF printers, or at an increasing number of photo labs.
- This function is not available for Movie clips, RAW and TIFF files.
- Depending on the manufacturer and print model, cancelling the printing may take a little longer for the printer to process.

DPOF : STANDARD

- This function allows you to embed print quantity information on a stored image.

1. In play mode, press the Menu button.
2. Select [▶] menu tab and press the Right button.
3. Select the [DPOF/Standard] menu by pressing the Up/ Down button and press the Right button.
4. Select a desired sub menu by pressing the Up/ Down button and press the Right button.

[Select] : Selection window for an image to print is displayed.

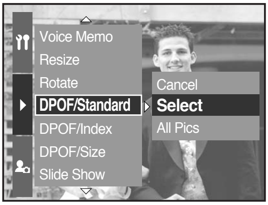
- Rear jog dial (JOG2) : Select an image to print.
- Front jog dial (JOG1) : Select the number of prints.

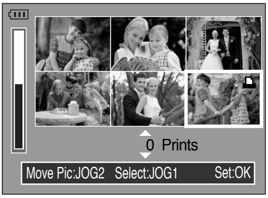
[All Pics] : Configure number of prints for all pictures except movie and voice files.

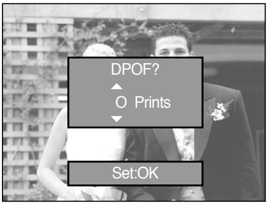
- Front jog dial (JOG1) : Select the number of prints.

[Cancel] : Cancel the print setup.

5. Press the OK button to confirm the setting. If an image carries DPOF instructions, the DPOF indicator (⎙) will show.


Voice Memo
Resize
Rotate
DPOF/Standard
DPOF/Index
DPOF/Size
Slide Show
Cancel
Select
All Pics

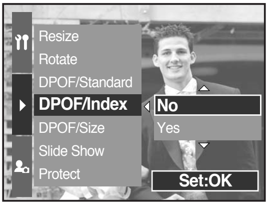

0 Prints
Move Pic:JOG2 Select:JOG1 Set:OK


DPOF?
0 Prints
Set:OK

DPOF : INDEX

- ■ Images (except for movie clips and voice file) are printed as index type.

1. In play mode, press the Menu button and select the [▶] menu tab.
2. Press the Right button and select the [DPOF/Index] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/Down button.
   If [No] is selected : Cancel the index print setting.
   If [Yes] is selected : The image will be printed in index format.
4. Press the OK button to set the setting.


Resize
Rotate
DPOF/Standard
DPOF/Index
DPOF/Size
Slide Show
Protect
No
Yes
Set:OK

DPOF : PRINT SIZE

- ■ You can specify the print size when printing images stored on the memory card. The [DPOF/Size] menu is available only for DPOF 1.1 compatible printers.

- ● Setting the Print Size

1. In play mode, press the Menu button.
2. Select [▶] menu tab and press the Right button.
3. Select the [DPOF/Size] menu by pressing the Up/ Down button and press the Right button.
4. Select a desired sub menu by pressing the Up/ Down button and press the Right button.

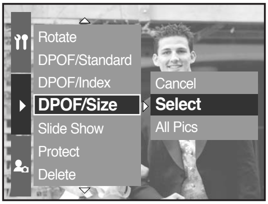
[Select] : Selection window for an image to be changed printed size is displayed.

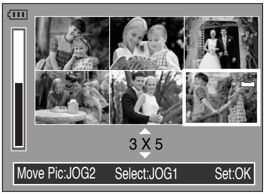
- Rear jog dial (JOG2) : Select an image.
- Front jog dial (JOG1) : Change the print size.
- OK button : Your changes will be saved and the menu will disappear.

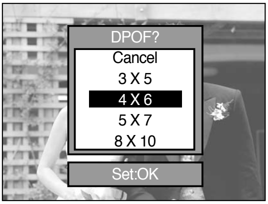
[All Pics] : Change print size of all saved images

- Select a desired print size by pressing the Up/ Down button.

* DPOF Size secondary menu : Cancel, 3X5, 4X6, 5X7, 8X10


Rotate
DPOF/Standard
DPOF/Index
DPOF/Size
Slide Show
Protect
Delete
Cancel
Select
All Pics


3 X 5
Move Pic:JOG2
Select:JOG1
Set:OK


DPOF?
Cancel
3 X 5
4 X 6
5 X 7
8 X 10
Set:OK

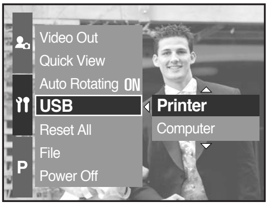
PictBridge

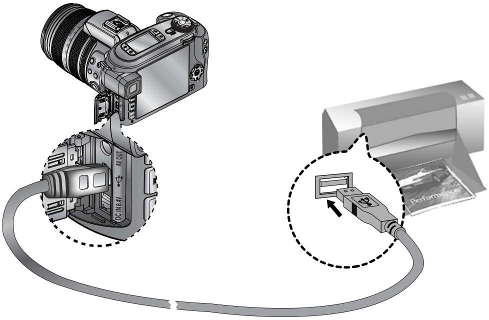
- You can use the USB cable to connect this camera to a printer that supports PictBridge (sold separately) and print the stored images directly. RAW, TIFF and Movie clip files cannot be printed. You can set up the following settings from the PictBridge menu.

Images	: Select the pictures to be printed.
Auto Set/ Custom Set	: Setting up printing
Print	: Printing pictures
DPOF Print	: Printing the DPOF files
Reset	: Initialising the PictBridge functions

● Connecting the Camera to a Printer

1. Press the POWER button to turn on the camera.
2. Press the Menu button and select the set up menu tab (🔧).
3. Press the Right button and select the [USB] menu by pressing the Up/ Down button.
4. Press the Right button and select the [Printer] menu by pressing the Up/ Down button.
5. Press the OK button to set the setting.
6. Use the supplied USB cable to connect the camera to the printer as shown below.
7. Turn on the printer and the camera will be connected to the printer.





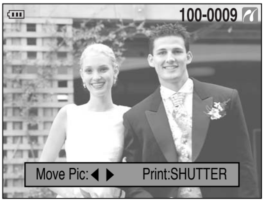
※ If you selected [Computer] in Step 4, when you connect the camera to your printer, the [Connecting Computer] message will display and the connection will not be established. In this case, disconnect the USB cable, and then follow the procedure from Step 1 and onward.

PictBridge : Picture Selection

- Easy printing

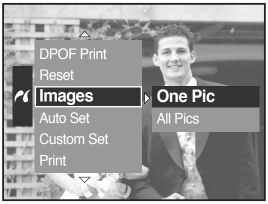
  When you connect the camera to printer in the Play back mode, you can print a picture easily.

  - Pressing the shutter button : Currently displayed image will be printed with the printer's default setting.
  - Pressing the Left/ Right button : Selects a previous/ next image.



- Select pictures to print

1. Connect the camera to your printer. The USB menu must be set to [Printer] before you connect the camera to the printer. (See p.105)
2. Press the Menu button and select the [ ] menu tab by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button. And then press the Right button.

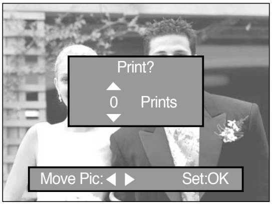


When [One Pic] is selected : The PictBridge function will be applied only to the picture currently displayed.

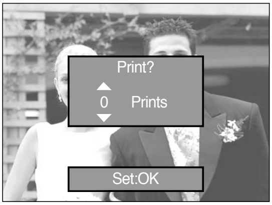
When [All Pics] is selected : The PictBridge function will be applied to all pictures, excluding RAW, TIFF and movie clips files.

● Setting the Number of Copies to Print

- Select [One Pic] or [All Pics]. A screen where you can set the number of copies to print will appear as shown below.



[When [One Pic] is selected]



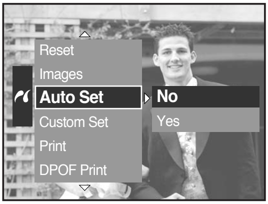
[When [All Pics] is selected]

- Press the Up/ Down button to select the number of prints.
- When you select [One Pic] menu, use the Left/ Right button to select another picture and select the number of prints for another picture.
- After setting the number of prints, press the OK button to save.

PictBridge : Print Setting

- AUTO SET

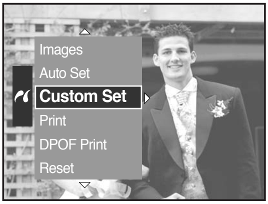
Connect the camera to your printer. The USB menu must be set to [Printer] before you connect the camera to the printer. (See p.105)



1. Select the [Auto Set] menu by pressing the Up/ Down button.
2. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
   [No] : [Custom Set] values are kept.
   [Yes] : Press the OK button and a confirmation window will display. Press the OK button again and all values in the [Custom Set] are automatically changed.

- Custom Set : You can select the Paper Size, Print Format, Paper Type, Print Quality, Date, Print, and File Name Print menus for printed pictures.

Connect the camera to your printer. The USB menu must be set to [Printer] before you connect the camera to the printer. (See p.105)



1. Select the [Custom Set] menu by pressing the Up/ Down button.
2. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
3. Select a desired sub menu and press the OK button.
   The menus you can set up are as follows :

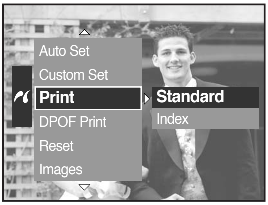
Menu	Function	Sub menu
Paper Size	Setting the size of the printing paper	Auto, Postcard, Card, 4X6, L, 2L, Letter, A4, A3
Layout	Setting the number of pictures to be printed on a sheet of paper	Auto, Full, 1, 2, 4, 8, 9, 16
Paper Type	Setting the quality of the printing paper	Auto, Plain, Photo, Fastphoto
Quality	Setting the quality of the picture to be printed	Auto, Draft, Normal, Fine
Date Print	Setting whether to print the date	Auto, Off, On
File Name	Setting whether to print the file name	Auto, Off, On

※ Some menu options are not supported in all manufacturer and printer models.

※ If the setting values are not changed in the automatic/manual setting, the setting values are automatically kept.

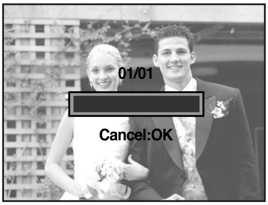
PictBridge : Printing

■ Printing Pictures



Connect the camera to your printer. The USB menu must be set to [Printer] before you connect the camera to the printer. (See p.105)

1. Select the [Print] menu by pressing the Up/ Down button.
2. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
   [Standard] : Print the pictures stored in the memory card in set numbers. One picture is printed on one piece of paper.
   [Index] : Print multiple images on one sheet of paper.

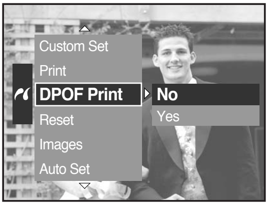


3. The screen shown on the right will appear and the picture will be printed. If no picture is selected, the [No image!] message will be displayed. Press the Menu/ OK button while printing to cancel the printing and the [Print] menu is displayed.

※ Depending on the manufacturer and printer model, some menus may not be available.

※ Depending on the manufacturer and print model, cancelling the printing may take a little longer for the printer to process.

■ DPOF Print : This allows you to directly print the files with DPOF information.



Connect the camera to your printer. The USB menu must be set to [Printer] before you connect the camera to the printer. (See p.105)

1. Select the [DPOF Print] menu by pressing the Up/ Down button.
2. Select a desired sub menu by pressing the Up/ Down button and press the OK button.
   [No] : Cancel the printing
   [Yes] : Directly print the file with the DPOF information

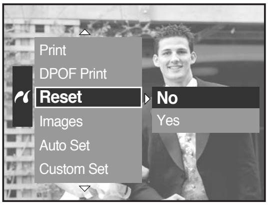
※ Some menu options are not supported in all manufacturer and printer models.

PictBridge : RESET

- Initialises user-changed configurations.

Connect the camera to your printer. The USB menu must be set to [Printer] before you connect the camera to the printer. (See p.105)

1. Select the [Reset] menu by pressing the Up/ Down button.
2. Press the Right button and select a desired sub menu by pressing the Up/ Down button.



If [No] is selected : Settings will not be reset.
If [Yes] is selected : Press the OK button and a confirmation window will display. Press the OK button again and all print and image settings will be reset.

※ Default print setting varies depending on the printer manufacturer.
For your printer's default setting, refer to the user's guide that came with your printer.

Setup menu

- In this mode, you can set up basic settings.
  The items indicated by ▨ are default settings.

<table>
<tr><th>Menu tab</th><th>Main menu</th><th colspan="2">Sub menu</th><th colspan="2">Secondary menu</th><th>Page</th></tr>
<tr><td rowspan="30">🔧</td><td rowspan="2">File</td><td colspan="2">Series</td><td colspan="2">-</td><td rowspan="2">p.112</td></tr>
<tr><td colspan="2">Reset</td><td colspan="2">-</td></tr>
<tr><td>Power Off</td><td colspan="2">1, 3, 5 min</td><td colspan="2">-</td><td>p.113</td></tr>
<tr><td>LCD Off</td><td colspan="2">Off, 10, 20, 30, 60 sec</td><td colspan="2">-</td><td>p.114</td></tr>
<tr><td rowspan="9">Language</td><td>ENGLISH</td><td colspan="2">한국어</td><td>FRANÇAIS</td><td rowspan="9">p.115</td></tr>
<tr><td>DEUTSCH</td><td colspan="2">ESPAÑOL</td><td>ITALIANO</td></tr>
<tr><td>简体中文</td><td colspan="2">繁體中文</td><td>日本語</td></tr>
<tr><td>РУССКИЙ</td><td colspan="2">PORTUGUÊS</td><td>DUTCH</td></tr>
<tr><td>DANSK</td><td colspan="2">SVENSKA</td><td>SUOMI</td></tr>
<tr><td colspan="4">Type A</td></tr>
<tr><td>ไทย</td><td colspan="2">BAHASA</td><td>عربي</td></tr>
<tr><td colspan="4">Type B</td></tr>
<tr><td>Magyar</td><td colspan="2">POLSKI</td><td>Čeština</td></tr>
<tr><td rowspan="2">Format</td><td colspan="2">No</td><td colspan="2">-</td><td rowspan="2">p.116</td></tr>
<tr><td colspan="2">Yes</td><td colspan="2">-</td></tr>
<tr><td>Date & Time</td><td colspan="2">2005/07/01 13:00</td><td colspan="2">-</td><td rowspan="4">p.117</td></tr>
<tr><td rowspan="3">Date Type</td><td colspan="2">yy/mm/dd</td><td colspan="2">-</td></tr>
<tr><td colspan="2">mm/dd/yy</td><td colspan="2">-</td></tr>
<tr><td colspan="2">dd/mm/yy</td><td colspan="2">-</td></tr>
<tr><td rowspan="6">World Time</td><td colspan="2">Cape Verde</td><td colspan="2">Tashkent</td><td rowspan="6">p.118</td></tr>
<tr><td colspan="2">London</td><td colspan="2">Almaty</td></tr>
<tr><td colspan="2">Rome, Paris, Berlin</td><td colspan="2">Bangkok, Jakarta</td></tr>
<tr><td colspan="2">Athens, Helsinki</td><td colspan="2">Beijing , Hong Kong</td></tr>
<tr><td colspan="2">Moscow</td><td colspan="2">Seoul, Tokyo</td></tr>
<tr><td colspan="2">Abu Dhabi</td><td colspan="2">Guam, Sydney</td></tr>
</table>

Setup menu

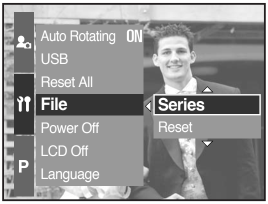
Menu tab	Main menu	Sub menu	Secondary menu	Page
🔧	World Time	Okhotsk	Denver, Phoenix	p.118
		Wellington, Auckland	Chicago, Dallas	
		Samoa, Midway	New York, Miami	
		Honolulu, Hawaii	Caracas, La Paz	
		Alaska	Buenos Aires	
		LA, San Francisco	Mid-Atlantic	
	Imprint	Off	-	p.119
		Date		
		Date & Time		
	Sound	Off	Low	p.120
		Medium	High	
	Brightness	Main LCD	Bright, Normal, Dark	p.120
		EVF		
		Top LCD		
	Video Out	NTSC	-	p.121
		PAL		
	Quick View	Off, 0.5, 1, 3, 5 sec	-	p.122
	Auto Rotating	Off	-	p.123
		On		
	USB	Computer	-	p.124
		Printer		
	Reset	No	-	p.124
		Yes		

* Menus are subject to change without prior notice.

File name

- ■ This function allows the user to select the file naming format.

- ● How to set the file names



1. Press the Menu button and select the [🔧] menu tab.
2. Press the Right button and select the [File] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
   [Series] : New files are named using numbers that follow the previous sequence, even when a new memory card is used, or after formatting, or after deleting all pictures.
   [Reset] : After using the reset function, the next file name will be set from 0001 even after formatting, deleting all or inserting a new memory card.
4. Press the OK button to set the setting.

INFORMATION

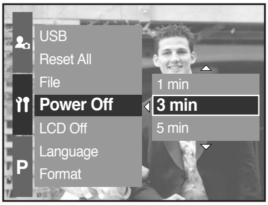
- ● The first stored folder name is 100SSCAM, and the first file name is SH100001.
- ● File names are assigned sequentially from SH100001 → SH100002 → ~ → SH109999. But, files that was saved as the Adobe RGB type are assigned as _H1xxxxx.
- ● The folder number is assigned sequentially from 100 to 999 as follows : 100SSCAM → 101SSCAM → ~ → 999SSCAM.
- ● The files used with the memory card conform to the DCF(Design rule for Camera File systems) format.

Auto power off

■ This function switches the camera off after a set amount of time in order to prevent unnecessary battery drainage.

● How to set the Auto power Off

1. Press the Menu button and select the [🔧] menu tab.
2. Press the Right button and select the [Power Off] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
   [1, 3, 5 min] : The power will turn off automatically if not used for the period of time specified.
4. Press the OK button to set the setting.



INFORMATION

● Even if the battery or AC adapter are removed and inserted again, the power off setting will be preserved.

● Note that the automatic power off function will not operate if the camera is in PC mode, slide show, interval shooting and playing back a movie clip.

Auto turning off the LCD

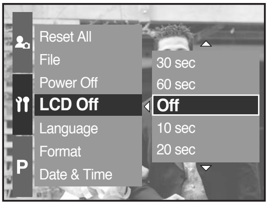
- This function switches the LCD off after a set amount of time in order to prevent unnecessary battery drainage.

- How to set the auto turn off time

1. Press the Menu button and select the [🔧] menu tab.
2. Press the Right button and select the [LCD Off] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ button.

   [Off] : The LCD will not turn off.

   [10, 20, 30, 60 sec] : The LCD will turn off automatically if not used for the period of time specified.
4. Press the OK button to set the setting.



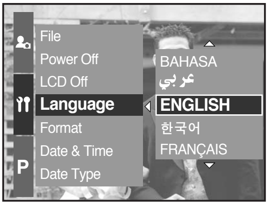
INFORMATION

- Even if the battery or AC adapter are removed and inserted again, the auto LCD turn off setting will be preserved.
- Note that the automatic LCD off function will not operate if the camera is in PC mode, slide show, interval shooting and playing back a movie clip.

Language

- ■ There is a choice of languages that can be displayed on the LCD. Even if the battery or AC adapter are removed and inserted again, the language setting will be preserved.

- ● How to set the language


File
Power Off
LCD Off
Language
Format
Date & Time
Date Type
P
BAHASA
عربي
ENGLISH
한국어
FRANÇAIS

1. Press the Menu button and select the [🔧] menu tab.
2. Press the Right button and select the [Language] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
   - LANGUAGE sub menu : English, Korean, French, German, Spanish, Italian, S. Chinese, T. Chinese, Japanese, Russian, Portuguese, Dutch, Danish, Swedish, Finnish.
4. Press the OK button to set the setting.

INFORMATION

- ● Type A or B language can be inserted depending on the region
  - Type A : Thai, Bahasa, Arabic
  - Type B : Hungarian, Polish, Czech

Formatting a memory card

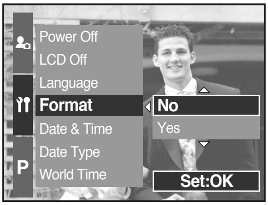
- This is used for formatting the memory card. If you run [Format] on the memory card, all images, including the protected images, will be deleted. Be sure to download important images to your PC before formatting the memory card.

- How to format the memory card

1. Press the Menu button and select the [🛠] menu tab.
2. Press the Right button and select the [Format] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.

   If [No] is selected : The memory card will not be formatted.

   If [Yes] is selected : A [Processing!] message appears and the memory card will be formatted. If you ran FORMAT in Play mode, a [No Image!] message will appear.



INFORMATION

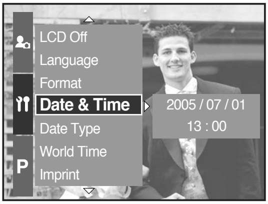
- Be sure to run [Format] on the following types of memory card.
  - A new memory card, or an unformatted memory card.
  - A memory card that has a file this camera can’t recognise or one that has been taken from another camera.
- Always format the memory card using this camera. If you insert a memory card that has been formatted using other cameras, memory card readers, or PCs, you will get a [Card Error!] message.

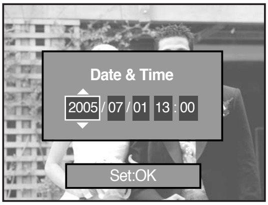
Setting up the Date & Time

- ■ You can change the date and time that will be displayed on the captured images.

- ● How to set the Date & Time

1. Press the Menu button and select the [🔧] menu tab.
2. Press the Right button and select the [Date & Time] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
   - Left/ Right button : Selects the year/ month/ day/ hour/ minute item.
   - Up/ Down button : Changes the setting value
4. Press the OK button to set the setting.


LCD Off
Language
Format
Date & Time
Date Type
World Time
Imprint
P
2005 / 07 / 01
13 : 00

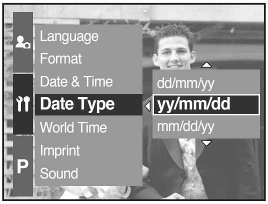

Date & Time
2005 / 07 / 01 13 : 00
Set:OK

Setting up the date type

- ■ You can change the date type that will be displayed on the captured images.

- ● How to set the date type

1. Press the Menu button and select the [🔧] menu tab.
2. Press the Right button and select the [Date Type] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
   - Up/ Down : Changes the date type [yy/mm/dd], [mm/dd/yy], [dd/mm/yy].
4. Press the OK button to set the setting.

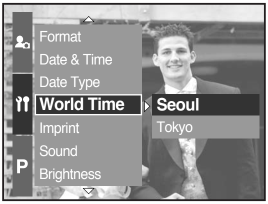

Language
Format
Date & Time
Date Type
World Time
Imprint
Sound
P
dd/mm/yy
yy/mm/dd
mm/dd/yy

World time

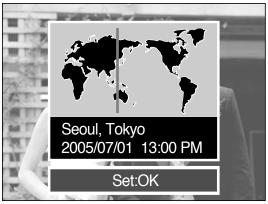
- ■ You can check the time of cities of various nations.

● How to check the time

1. Press the Menu button and select the [🔧] menu tab.
2. Press the Right button and select the [World Time] menu by pressing the Up/ Down button.


Format
Date & Time
Date Type
World Time
Imprint
Sound
Brightness
P
Seoul
Tokyo

3. Press the Right button and a world map will display as shown alongside.
   - Left/ Right or Rear jog dial (JOG2) : moves the red line to check the time of various cities.
4. Press the OK button to set the setting.

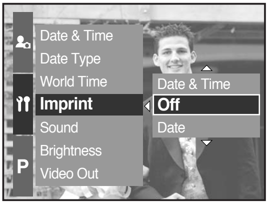

Seoul, Tokyo
2005/07/01 13:00 PM

Imprinting the recording date

■ There is an option to include Date/Time on still images.

● How to imprint the date & time

1. Press the Menu button and select the [ ] menu tab.
2. Press the Right button and select the [Imprint] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu.
   - [Off] : The DATE & TIME will not be imprinted on the image file.
   - [Date] : Only the DATE will be imprinted on the image file.
   - [Date & Time] : The DATE & TIME will be imprinted on the image file.
4. Press the OK button to set the setting.



INFORMATION

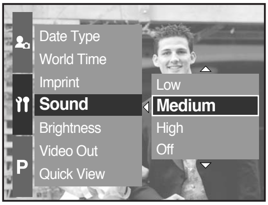
- ● The Date & Time are imprinted at the bottom right side of the still image.
- ● The date will be imprinted as a DATE TYPE setting.
- ● TIME is imprinted in the following way : [Hour : Minute] and hours are shown using the 24 hour clock.
- ● The imprint function is applied only to still images except for the images taken in the [Text] scene mode.

Sound

■ If you set the operation sound to ON, various sounds will be activated for camera startup, when button are pressed, and if there is a card error, so that you can be aware of the camera operation status.

● How to set the sound

1. Press the Menu button and select the [🔧] menu tab.
2. Press the Right button and select the [Sound] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu.
   [Sound] sub menu : Off/ Low/ Medium/ High
4. Press the OK button to set the setting.

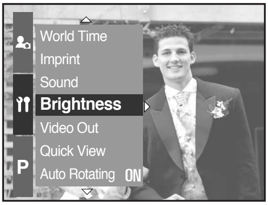

P
Date Type
World Time
Imprint
Sound
Brightness
Video Out
Quick View
Low
Medium
High
Off

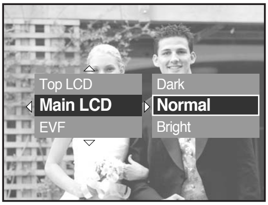
LCD brightness

■ You can adjust the Rear, Finder and Top LCD brightness.

● How to set the brightness

1. Press the Menu button and select the [🔧] menu tab.
2. Press the Right button and select the [Brightness] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired LCD by pressing the Up/ Down button.
4. Press the Right button and select a desired sub menu.
   - [Brightness] sub menu : Dark, Normal, Bright
5. Press the OK button to set the setting.

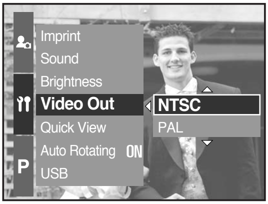

P
World Time
Imprint
Sound
Brightness
Video Out
Quick View
Auto Rotating ON


Top LCD
Main LCD
EVF
Dark
Normal
Bright

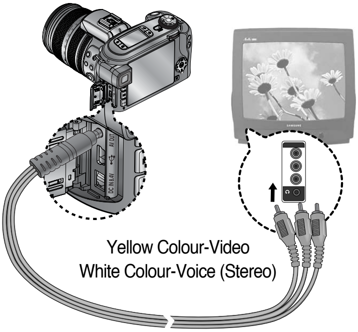
Selecting Video out type

- The Movie output signal from the camera can be NTSC or PAL.
  Your choice of output will be governed by the type of device (monitor or TV, etc.) to which the camera is connected. PAL mode can support only BDGHI.

- How to set the video out type
  1. Press the Menu button and select the [🛠] menu tab.
  2. Press the Right button and select the [Video Out] menu by pressing the Up/ Down button.
  3. Press the Right button and select a desired LCD by pressing the Up/ Down button.
     - [Video Out] sub menu : NTSC, PAL
  4. Press the OK button to set the setting.



- Connecting to an external monitor
  In RECORDING/ PLAY mode, you can view the stored still images or movie clips by connecting the camera to an external monitor via the AV cable. When the camera is connected to an external monitor, the LCD monitor will be turned off automatically.



INFORMATION

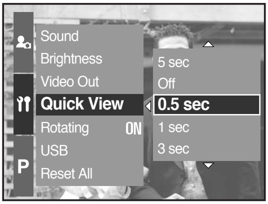
- NTSC : U.S.A, Canada, Japan, South Korea, Taiwan, Mexico.
- PAL : Australia, Austria, Belgium, China, Denmark, Finland, Germany, U.K., Holland, Italy, Kuwait, Malaysia, New Zealand, Singapore, Spain, Sweden, Switzerland, Thailand, Norway.
- When using a TV as an external monitor, you will need to select the external or AV channel of the TV.
- There will be a digital noise on the external monitor, but it is not a malfunction.
- If the image is not in the centre of the screen, use the TV controls to centre it.
- When the camera is connected to an external monitor, the menu will be visible on the external monitor and the menu functions are the same as those indicated on the LCD.

Quick view

■ If you enable Quick View before capturing an image, you can view the image you just captured on the LCD for the duration set in the [Quick View] setup. Quick view is possible only with still images.

● How to set the quick view

1. Press the Menu button and select the [🍴] menu tab.
2. Press the Right button and select the [Quick View] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
   [Off] : The quick view function can't be activated.
   [0.5, 1, 3, 5 sec] : The captured image is briefly displayed during the selected time.
4. Press the OK button to set the setting.

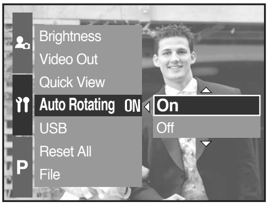

Sound
Brightness
Video Out
Quick View
Rotating
ON
USB
Reset All
P
5 sec
Off
0.5 sec
1 sec
3 sec

Auto rotating sensor

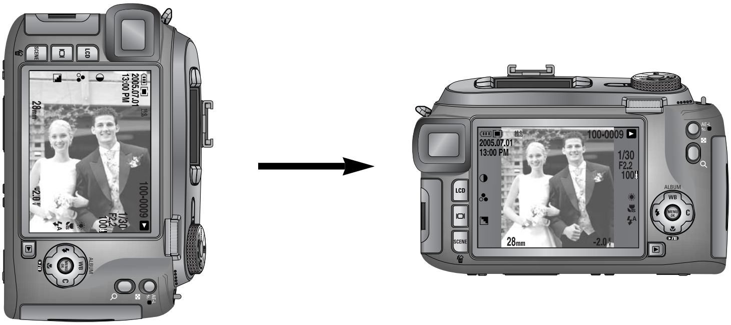
- When an image taking vertically plays back, the auto rotating sensor will rotate the image correctly.
- You can view the reversed image correctly without rotating the image.

● How to set the auto rotating sensor

1. Press the Menu button and select the [🛠] menu tab.
2. Press the Right button and select the [Auto Rotating] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
   [On] : The image will be rotated automatically.
   [Off] : The image will not be rotated automatically.
4. Press the OK button to set the setting.


Brightness
Video Out
Quick View
Auto Rotating ON
On
Off
USB
Reset All
File
P

※ Selecting the [On] sub menu


2005.07.01
13:00 PM
100-0009
1/30
F2.2
28mm
-2.0
LCD
SCENE
ALBUM
WB
MENU OK
AE-L

[Taking an image]

[Playing back the image]

Connecting an External Device (USB)

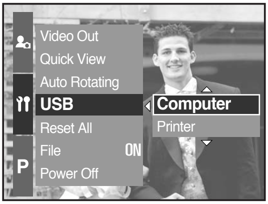
■ You can select an external device to which you want to connect the camera using the USB cable.

● How to set the external device

1. Press the Menu button and select the [🔧] menu tab.
2. Press the Right button and select the [USB] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.

   [Computer] : Select this if you want to connect the camera to your PC.
   Refer to page 144 for instructions on how to connect the camera to your PC.

   [Printer] : Select this if you want to connect the camera to your printer.
   Refer to page 105 for instructions on how to connect the camera to your printer.
4. Press the OK button to set the setting.


Video Out
Quick View
Auto Rotating
USB
Reset All
File
ON
Power Off
P
Computer
Printer

Initialisation

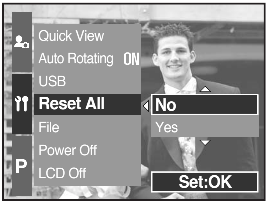
■ All camera menu and function settings will be restored to their default values.
However, values for DATE/ TIME, LANGUAGE, and VIDEO OUT will not be changed.

● How to set the initialisation

1. Press the Menu button and select the [🔧] menu tab.
2. Press the Right button and select the [Reset All] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.

   If [No] is selected : Settings will not be restored to their defaults.

   If [Yes] is selected : A confirmation window will display.
   Select the [Yes] menu by pressing the Up/ Down button.
   All settings will be restored to their defaults.


Quick View
Auto Rotating
ON
USB
Reset All
File
Power Off
LCD Off
P
No
Yes
Set:OK

Setting up the MYCAM menu

- You can set up a start up image, start up sound, shutter sound and sound effect. The items indicated by ▨ are default settings.

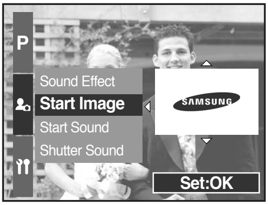
Menu tab	Main menu	Sub menu		Page
	Start Image	Off	Logo	p.126
		User Image	-	
	Start Sound	Off	Sound 1	p.126
		Sound 2	Sound 3	
	Shutter Sound	Off	Shutter 1	p.127
		Shutter 2	Shutter 3	
	Sound Effect	Off	Effect 1	p.127
		Effect 2	Effect 3	

* Menus are subject to change without prior notice.

Start up image

- ■ You can select the image that is first displayed on the LCD whenever the camera is turned on.

- ● How to set the start up image
  1. Press the Menu button and select the [👤] menu tab.
  2. Press the Right button and select the [Start Image] menu by pressing the Up/ Down button.
  3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
  4. Press the OK button to set the setting.


P
Sound Effect
Start Image
Start Sound
Shutter Sound
SAMSUNG
Set:OK

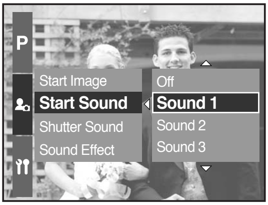
INFORMATION

- ● Use a saved image for the start-up image with the [User Image] in the [Resize] menu in the play mode.
- ● The start-up image will not be deleted by deleting all images or Format function.
- ● The User images will be deleted by [Reset] menu.

Start up sound

- ■ You can select the sound that is activated whenever the camera is turned on.

- ● How to set the start up sound
  1. Press the Menu button and select the [👤] menu tab.
  2. Press the Right button and select the [Start Sound] menu by pressing the Up/ Down button.
  3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
  4. Press the OK button to set the setting.

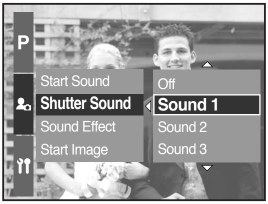

P
Start Image
Start Sound
Shutter Sound
Sound Effect
Off
Sound 1
Sound 2
Sound 3

Shutter sound

- ■ You can select the shutter sound.

- ● How to select the shutter sound

1. Press the Menu button and select the [👤] menu tab.
2. Press the Right button and select the [Shutter Sound] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
4. Press the OK button to set the setting.

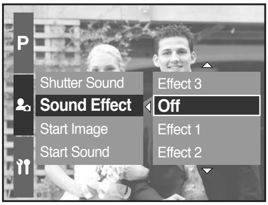

P
Start Sound
Shutter Sound
Sound Effect
Start Image
Off
Sound 1
Sound 2
Sound 3

Sound type

- ■ You can select a type of sound when the sound is activated.

- ● How to set the type of sound

1. Press the Menu button and select the [👤] menu tab.
2. Press the Right button and select the [Sound Effect] menu by pressing the Up/ Down button.
3. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
4. Press the OK button to set the setting.


P
Shutter Sound
Sound Effect
Start Image
Start Sound
Effect 3
Off
Effect 1
Effect 2

Important notes

Be sure to observe the following precautions!

- This unit contains precision electronic components. Do not use or store this unit in the following locations.
  - Areas exposed to severe changes in temperature and humidity.
  - Areas exposed to dust and dirt.
  - Areas exposed to direct sunlight or the inside of a vehicle in hot weather.
  - Environments where there is high magnetism or excessive vibration.
  - Areas with high explosives or highly flammable materials.

- Do not let the unit come into contact with dust, vinyl goods, or chemicals, such as insecticides, for an extended period of time.

- Sand can be particularly troublesome to cameras.
  - Do not let sand get inside the unit when using it on beaches, coastal dunes, or other areas where there is lots of sand.
  - Doing so may result in failure or may permanently render the unit unusable.

- Handling the camera
  - Never drop the camera or subject it to severe shocks or vibrations.
  - This camera is not waterproof. To avoid dangerous electrical shocks, never hold or operate the camera with wet hands.
  - If you use this camera in wet places, such as beach or pool, do not let water or sand get inside the camera.

- Extremes in temperature may cause problems.
  - If the camera is transferred from a cold to a warm and humid environment, condensation can form on the delicate electronic circuitry. If this occurs, turn the camera off and wait for at least 1 hour until all moisture is dispersed. Moisture build up can also occur in the memory card. If this happens, turn off the camera and remove the memory card. Wait until the moisture has dispersed.

Important notes

- Caution on Using the Lens
  - If the lens is subjected to direct sunlight, it could result in discoloration and deterioration of the image sensor.
  - Pay attention not to get fingerprints or foreign substances on the surface of the lens.

- If the digital camera is not used for a long period, an electric discharge can occur. It is a good idea to remove the batteries and the memory card if you do not intend using the camera for an extended period of time.

- If the camera is exposed to an electronic interference, it will turn itself off to protect the memory card.

- Camera Maintenance
  - Use a soft brush (available from photo stores) to gently clean the lens and LCD assemblies. If this does not work, lens-cleaning paper with lens cleaning fluid can be used. Clean the camera body with a soft cloth. Do not allow this camera to come into contact with solvent materials such as benzol, insecticide, thinners etc. This may damage the body shell of the camera and also affect its performance. Rough handling can damage the LCD monitor. Take care to avoid damage and keep the camera in its protective carry case at all times when not in use.

- Do not attempt to disassemble or modify the camera.

- Under certain conditions, static electricity can cause the flash unit to fire. This is not harmful to the camera and is not a malfunction.

- When images are uploaded or downloaded, the data transfer may be affected by static electricity. In this case, disconnect and re-connect the USB cable before trying the transfer again.

- Before an important event or going on a trip, you should check the camera condition.
  - Take a picture for testing the camera condition and prepare extra batteries.
  - Samsung cannot be held responsible for camera malfunctions.

Warning indicator

- There are several warnings that may appear on the LCD display.

Card Error !

· Memory card error

→ Turn off the camera power and turn it on again

→ Insert the memory card again

→ Insert the memory card and format the memory card (p.116)

No Card !

· A memory card is not inserted

→ Insert a memory card

· The camera can’t recognise the memory card

→ Insert the memory card again

→ Turn off the camera power and turn it on again

Card Full !

· There is insufficient memory capacity to take an image

→ Insert a new memory card

→ Delete unnecessary image files to free up some memory

No Image !

· There are no images stored on the memory card

→ Take images

→ Insert a memory card that is holding some images

File Error !

· File error

→ Format the memory card

· Memory card error

→ Contact a camera service centre

Low Battery !

· There is low battery capacity

→ Insert charged battery

Warning indicator

Set USB

· [USB] sub menu and connected device are not matched.

→ Reconfigure [USB] in the [Setup] menu.

Out Of Number

· When selecting too many printing pages in the PictBridge menu.

→ Select printing page within the limitation.

Before contacting a service centre

- Please check the following

The camera doesn't switch on

· There is low battery capacity.

→ Insert charged battery.

The camera power ceases while in use.

· The battery is exhausted.

→ Insert charged battery.

· The Camera is turned off automatically.

→ Turn on the camera power again.

Battery drain quickly

· The Camera is being used in low temperatures.

→ Keep the camera in warm conditions (i.e. inside a coat or jacket) and only remove it in order to take images.

Before contacting a service centre

Camera does not take images when pressing the Shutter button

- There is insufficient memory capacity.
  → Delete unnecessary image files
- The memory card has not been formatted
  → Format the memory card (p.116)
- The memory card is exhausted
  → Insert a new memory card
- The camera's power is off
  → Turn the camera power on
- The batteries are exhausted
  → Insert charged battery.

The camera suddenly stops working while in use

- The camera was stopped due to a malfunction
  → Remove/ re-insert battery and switch the camera on

The images are unclear

- A picture was taken the subject without setting an appropriate macro mode
  → Select an appropriate macro mode to take a clear image.
- Taking a picture beyond the flash range
  → Take a picture within the flash range
- The lens is smudged or dirty
  → Clean the lens
- The focus is not correct in the manual focus mode
  → Set the correct focus in the manual focus mode.
- There was camera shake when using a high rate zoom.
  → Use a tripod when using a high rate zoom.

The flash does not fire

- Flash off mode has been selected
  → Dis-engage flash off mode
- The camera mode can't use the flash
  → Refer to the FLASH instruction (p.57~60)

Incorrect date and time is displayed

- The date and time have been set incorrectly or the camera has adopted the default settings
  → Reset the date and time correctly

Before contacting a service centre

The images don't play back

- Incorrect file name (Violation of DCF format)
  → Do not change the image file name

Colour of image is different to the original scene

- White balance or effect setting is incorrect
  → Select appropriate White balance and effect

Images are too bright

- Exposure is excessive
  → Reset exposure compensation

No image on external monitor

- The external monitor has not been connected properly with the camera
  → Check the connection cables
- There are incorrect files in the memory card
  → Insert a memory card that has correct files

When using the PC's explorer, the [Removable Disk] file does not show

- Cable connection is incorrect
  → Check the connection
- The camera is off
  → Turn the camera on
- The operating system is not Windows 98, 98SE, 2000, ME, XP/ Mac OS 10.0 or later. Alternatively the PC does not support USB
  → Install Windows 98, 98SE, 2000, ME, XP/ Mac OS 10.0 or later to PC that supports USB
- The camera driver is not installed
  → Install a [USB Storage Driver]

Specifications

<table>
<tr><td rowspan="3">Image Sensor</td><td>Type</td><td>2/3" CCD</td></tr>
<tr><td>Effective Pixel</td><td>Approx. 8.0 Mega-pixel</td></tr>
<tr><td>Total Pixel</td><td>Approx. 8.3 Mega-pixel</td></tr>
<tr><td rowspan="3">Lens</td><td>Focal Length</td><td>Schneider Lens f = 7.2 ~ 108.0mm (35mm film equivalent : 28~420mm)</td></tr>
<tr><td>F No.</td><td>F2.2 ~ F4.6</td></tr>
<tr><td>Digital Zoom</td><td>Still Image mode : 1.0X, 2.0X, 4.0X
Play mode : 1.0X ~ 10.2X (depends on image size)</td></tr>
<tr><td rowspan="2">Viewfinder</td><td>Electronic Viewfinder</td><td>0.44" color TFT LCD (235,000 dot)</td></tr>
<tr><td>LCD Monitor</td><td>Main : 3.5" colour TFT LCD (235,000 dot)
Top : 1.44" Wide color TFT LCD (115,000 dot, Status or Preview selectable)</td></tr>
<tr><td rowspan="3">Focusing</td><td>Type</td><td>TTL auto focus (9 points multi-focusing)</td></tr>
<tr><td>Modes</td><td>Single AF, Continuous AF, Manual focus
AF lock, AF area select, Direct manual focus available</td></tr>
<tr><td>Range</td><td><table>
<tr><td>Focus mode</td><td>Wide</td><td>Middle (200mm)</td><td>Tele (420mm)</td></tr>
<tr><td>Normal</td><td>50cm ~ Infinity</td><td>2.0m ~ Infinity</td><td>4.0m ~ Infinity</td></tr>
<tr><td>Macro</td><td>10 ~ 70cm</td><td>60cm ~ 2.1m</td><td>1.5 ~ 4.3m</td></tr>
<tr><td>Super Macro</td><td colspan="3">3 ~ 70cm (Focal Length 50~100mm)</td></tr>
</table></td></tr>
<tr><td rowspan="2">Shutter</td><td>Type</td><td>Mechanical and Electronic shutter</td></tr>
<tr><td>Speed</td><td>2 ~ 1/4,000 sec. (Manual mode : 15 ~ 1/4,000 sec.)</td></tr>
<tr><td rowspan="3">Exposure</td><td>Control</td><td>Program AE, Shutter Priority AE, Aperture Priority AE or Manual Exposure
Metering : Multi, Center-weighted, Spot
AE lock available</td></tr>
<tr><td>Compensation</td><td>±2EV (1/3EV steps)</td></tr>
<tr><td>ISO Equivalent</td><td>Auto, 50, 100, 200, 400</td></tr>
<tr><td colspan="2">High Speed Mode</td><td>Up to max ISO 400 automatically</td></tr>
<tr><td rowspan="4">Flash</td><td>Modes</td><td>Auto, Auto & Red-eye reduction, Fill-in, Slow sync, Slow sync & Red-eye reduction, Flash off
Flash compensation : ±2EV (1/3EV steps)</td></tr>
<tr><td>Range</td><td>Wide : 0.7 ~ 6.0m (ISO 100), Tele : 1.5 ~ 3.0m (ISO 100)</td></tr>
<tr><td>Recharging Time</td><td>Approx. 5 sec.</td></tr>
<tr><td>External Flash (optional)</td><td>SEF-42A : DC 6V, 4 x AA Alkaline</td></tr>
<tr><td colspan="2">Sharpness</td><td>Soft, Normal, Vivid</td></tr>
<tr><td colspan="2">Effect</td><td>Normal, B&W, Sepia, Negative
Contrast adjust, Saturation adjust</td></tr>
<tr><td colspan="2">Color Space</td><td>sRGB, Adobe RGB</td></tr>
<tr><td colspan="2">White Balance</td><td>Auto, Daylight, Cloudy, Fluorescent_H, Fluorescent_L, Tungsten, Custom 1, Custom 2, Color temperature adjust</td></tr>
<tr><td colspan="2">Voice Recording</td><td>Voice Memo in Still Image (max. 10 sec.)</td></tr>
<tr><td colspan="2">Date Imprinting</td><td>Date&Time, Date, Off (user selectable)</td></tr>
<tr><td>Shooting</td><td>Still Image</td><td>Modes : Auto, Program, A, S, M, Myset, Movie, Scene
* Scene : Night, Portrait, Children, Landscape, Close-up, Text, Sunset, Dawn, Backlight, Fireworks, Beach & Snow
Continuous : Single, Continuous (1.0 fps), Continuous HS (2.5 fps), Continuous UHS (10fps with 1 Mega-pixel quality), Interval (1~60 mins up to 99 frames)
Self-timer : 2 sec., 10 sec., Double, Remote control 0 sec., Remote control 2 sec.
Bracketing : Exposure, Focusing, White Balance (3 frames or 5 frames selectable)</td></tr>
</table>

Specifications

Shooting	Movie Clip	With stereo audio (recording time : memory capacity dependent) (640X480 and 25fps : up to 30 sec.) Size : 640x480, 320x240, 160x120 Frame rate : 25 fps, 15 fps
Storage	Media	CompactFlash Card Type I or Type II (Up to 4GB guaranteed)
	File Format	Still Image : RAW(DNG), TIFF, JPEG (DCF), EXIF 2.2, DPOF 1.1, PictBridge 1.0 Movie Clip : AVI (MJPEG) Audio : WAV
	Image Size	L : 3264x2448, 3:2 : 3264x2176, 16: 9 : 3264x1840 M1 : 2400x1800 M2 : 1632x1224 , S1 : 1024x768, S2 : 640x480
	Capacity (64MB)	L : RAW 3, TIFF 2, Superfine 15, Fine 29, Normal 42 3:2 : RAW -, TIFF -, Superfine 17, Fine 32, Normal 46 16:9 : RAW -, TIFF -, Superfine 20, Fine 38, Normal 54 M1 : RAW -, TIFF -, Superfine 27, Fine 50, Normal 71 M2 : RAW -, TIFF -, Superfine 54, Fine 94, Normal 124 S1 : RAW -, TIFF -, Superfine 111, Fine 169, Normal 205 S2 : RAW -, TIFF -, Superfine 292, Fine 450, Normal 548 * These figures are measured under Samsung's standard conditions and may vary depending on shooting conditions and camera settings.
Image Play	Type	Single image, Thumbnails, Slide show, Movie Clip, Album Organization
	Editing	Trimming, Resizing, Rotating
Interface		Digital output connector : USB 2.0 Audio : Stereo Video output : NTSC, PAL (user selectable) DC power input connector : 7.4V
Power Source		Rechargeable battery : 7.4V Li-ion battery(SLB-1974), Charger : SBC-L4 AC Adaptor : DC 8.4V, 1.5A (SAC-81, optional) * Included battery may vary depending on sales region.
Dimensions (WxHxD)		135.5x87x78.6mm (144.6mm, including lens protrusion)
Weight		870.5g (without battery and card)
Operating Temperature		0 ~ 40°C
Operating Humidity		5 ~ 85%
Software	Camera Driver	Storage Driver (Windows98/98SE/2000/ME/XP Mac OS 10.0 or later)
	Application	Digimax Master, Digimax Reader
Special Features		The world's longest[*1] built in 15X zoom - 28mm wide-angle and 15X ultra high zoom capability The world's largest[*1] digital camera LCD - 3.5" TFT with 235K Pixels The world's largest-capacity[*1] lithium-ion battery - 7.4V 1900mAh The world's first [*1]top TFT LCD for waist level shooting - 1.44" wide type High Speed mode suppressing camera shake

※ Specifications are subject to change without prior notice.

※ All trademarks are the property of their respective owners.

※ *1 : Among digital cameras, introduced by August of 2005.

Software Notes

Please ensure that you read the instruction manual carefully before use.

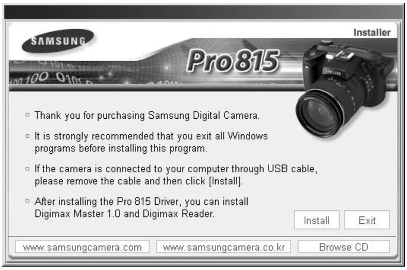
- The attached software is a camera driver and image editing software tool for Windows.
- Under no circumstances should all or part of either the software or the user manual be reproduced.
- Copyrights for software are licensed only for use with a camera.
- In the unlikely event of a manufacturing fault, we will repair or exchange your camera. We cannot, however, be held responsible in any way for damage caused by inappropriate use.
- Using a Hand-made PC or a PC and OS that has not been guaranteed by the manufacturer is not covered by the Samsung warranty.
- Before reading this manual, you should have a basic knowledge of computers and O/S (Operating Systems).

System Requirements

For Windows	For Macintosh
PC with processor better than Pentium II 450Mz (Pentium 700MHz recommended)	Power Mac G3 or later
Windows 98/98SE/2000/ME/XP	Mac OS 10.0 or later
Minimum 64MB RAM (XP : 128MB) 200MB of available hard disk space (1GB recommended)	Minimum 64MB RAM 110MB of available hard-disk space
USB port	USB port
CD-ROM drive	CD-ROM drive
1024x768 pixels, 16-bit colour display compatible monitor (24-bit colour display recommended)	QuickTime player or a media player that supports AVI file format

About the software

After inserting the software CD provided with this camera into the CD-ROM drive, the following window should automatically run.



- Thank you for purchasing Samsung Digital Camera.
- It is strongly recommended that you exit all Windows programs before installing this program.
- If the camera is connected to your computer through USB cable, please remove the cable and then click [Install].
- After installing the Pro 815 Driver, you can install Digimax Master 1.0 and Digimax Reader.

Before connecting the camera to the PC, you should first install the camera driver.

- **Camera driver : This enables images to transfer between the camera and PC.**
  This camera uses the USB Storage Driver as the camera driver. You can use the camera as a USB card reader. After installing the driver and connecting this camera to the PC, you can find [Removable Disk] in [Windows Explorer] or [My computer]. A USB Storage Driver is provided only for Windows. A USB Driver for MAC is not included with the Application CD. You can use the camera with Mac OS 10.0 or later.

- **Digimax Master : This is the all-in-on multi media software solution**
  You can download, view, edit and save your digital images and movie clips with this software. This software is only compatible with Windows.

- **Digimax Reader : Text recognition program**
  You can save an image file that was captured in the TEXT mode as a text file with this program. This software is only compatible with Windows.

INFORMATION

- Be sure to check the system requirements before installing the driver.
- To play back the movie clip on a PC, DirectX 9.0 or later must be installed. (p.138)
- You should allow 5~10 seconds for running the automatic setup program according to the capability of your computer. If the frame does not show, run the [Windows Explorer] and select [Samsung.exe] in the CD-ROM Drive root directory.

Setting up the application software

To use this camera with a PC, install the application software first.
After this has been done, the stored images in the camera can be moved to the PC and can be edited by an image editing program.

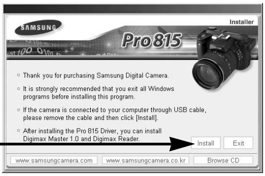
INFORMATION

- ● Close other programs before installing the application software.
- ● Before installing the application software, disconnect the USB connection.

You can visit the Samsung web-site through the internet.

http://www.samsungcamera.com : English
http://www.samsungcamera.co.kr : Korean

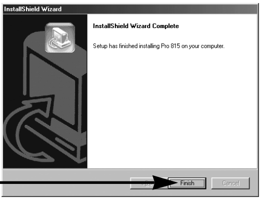
1. Click the [Install] menu in the Auto run frame.
   The camera driver is installed automatically.



- Thank you for purchasing Samsung Digital Camera.
- It is strongly recommended that you exit all Windows programs before installing this program.
- If the camera is connected to your computer through USB cable, please remove the cable and then click [Install].
- After installing the Pro 815 Driver, you can install Digimax Master 1.0 and Digimax Reader.

[Click !]

2. Installation is complete.
   Click the [Finish] button.

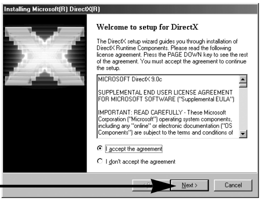


InstallShield Wizard Complete

Setup has finished installing Pro 815 on your computer.

[Click !]

3. The Software License Agreement window for DirectX will be displayed.
   If you agree to this, select [I accept the agreement] and click [Next >] button. the window will then move to the next step. If you disagree, select [I do not accept the agreement] and click [Cancel] button.
   The installation program will be cancelled.



Welcome to setup for DirectX

The DirectX setup wizard guides you through installation of DirectX Runtime Components. Please read the following license agreement. Press the PAGE DOWN key to see the rest of the agreement. You must accept the agreement to continue the setup.

MICROSOFT DirectX 9.0c

SUPPLEMENTAL END USER LICENSE AGREEMENT FOR MICROSOFT SOFTWARE ("Supplemental EULA")

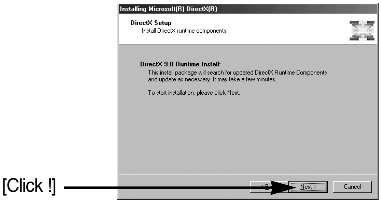
IMPORTANT: READ CAREFULLY - These Microsoft Corporation ("Microsoft") operating system components, including any "online" or electronic documentation ("OS Components") are subject to the terms and conditions of

● I accept the agreement
○ I don't accept the agreement

[Click !]

Setting up the application software

4. A window will open. Click the [Next(N) >] button.



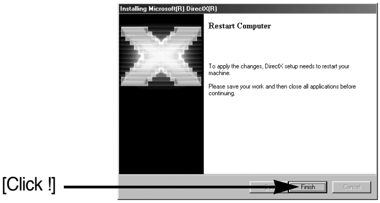
Installing Microsoft(R) DirectX(R)

DirectX Setup
Install DirectX runtime components

DirectX 9.0 Runtime Install:
This install package will search for updated DirectX Runtime Components and update as necessary. It may take a few minutes.

To start installation, please click Next.

5. DirectX Installation is completed.
   Click the [Finish] button and then the Digimax Master installation will be started.
   - * The system will not reboot even if you click the [Finish] button.
   - * The screen shot of step 5 can can be different from the illustration depending on the system requirements.



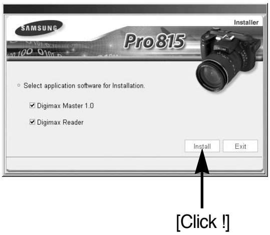
Installing Microsoft(R) DirectX(R)

Restart Computer

To apply the changes, DirectX setup needs to restart your machine.

Please save your work and then close all applications before continuing.

6. A window where you can choose the program you want to install will appear. Click the [Install] button.
   For information on application software, please refer to page 137.



Select application software for Installation.

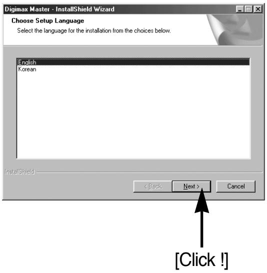
☑ Digimax Master 1.0

☑ Digimax Reader

INFORMATION

- If you select [Exit] at step 6, the application program installation will be cancelled.

7. The Digimax Master installation window will be displayed as shown alongside. Click the [Next >] button.



Digimax Master - InstallShield Wizard

Choose Setup Language
Select the language for the installation from the choices below.

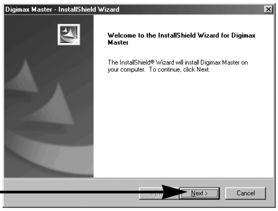
English
Korean

Setting up the application software

INFORMATION

- If you select [Cancel] at step 7, a window for installing Digimax Reader will be displayed.

8. A window will open. Click the [Next >] button.



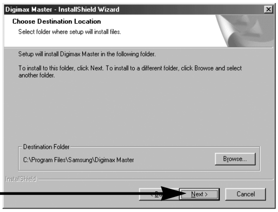
Digimax Master - InstallShield Wizard

Welcome to the InstallShield Wizard for Digimax Master

The InstallShield® Wizard will install Digimax Master on your computer. To continue, click Next.

[Click !]

9. A destination selection window will open. Click [Next >].
   To copy the files to another folder, click [Browse..] and choose a folder you want.



Digimax Master - InstallShield Wizard

Choose Destination Location

Select folder where setup will install files.

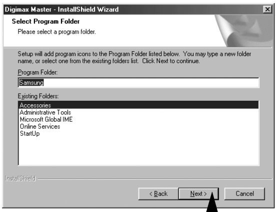
Setup will install Digimax Master in the following folder.

To install to this folder, click Next. To install to a different folder, click Browse and select another folder.

Destination Folder: C:\Program Files\Samsung\Digimax Master

[Click !]

10. A window will open, asking you to choose a folder to which program icons will be added.
    Click [Next >] button. If you want to choose another folder, click [Browse..] and choose a folder you want.



Digimax Master - InstallShield Wizard

Select Program Folder

Please select a program folder.

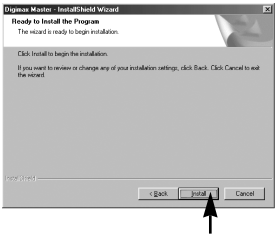
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue.

Program Folder: Samsung

Existing Folders:
Accessories
Administrative Tools
Microsoft Global IME
Online Services
StartUp

[Click !]

11. Click [Install(I)] button and Digimax Master starts installing.



Digimax Master - InstallShield Wizard

Ready to Install the Program

The wizard is ready to begin installation.

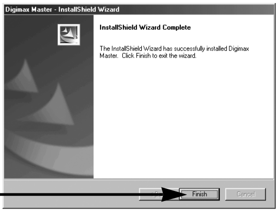
Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

[Click !]

Setting up the application software

12. Digimax Master installation is successfully completed. Click the [Finish] button to install Digimax Reader.
    * The screen shot of step 12 can be different from the illustration depending on the system requirements.

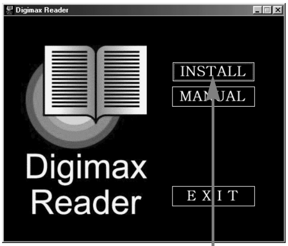

Digimax Master - InstallShield Wizard
Finish
Cancel

InstallShield Wizard Complete

The InstallShield Wizard has successfully installed Digimax Master. Click Finish to exit the wizard.

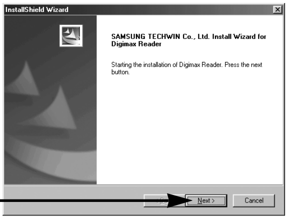
[Click !]

13. A window will be displayed as shown alongside. Click the [INSTALL] button.
    - If you click the [Manual] button instructions, instructions for using Digimax reader will be displayed.
    - Click the [EXIT] button and the Digimax reader installation will be cancelled and a window for restarting the computer will appear.


Digimax Reader
INSTALL
MANUAL
Digimax
Reader
EXIT

[Click !]

14. A window will open. Click the [Next >] button.

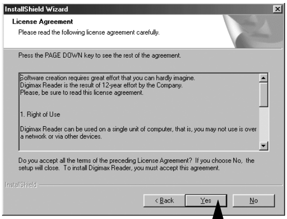

InstallShield Wizard
Next >
Cancel

SAMSUNG TECHWIN Co., Ltd. Install Wizard for Digimax Reader

Starting the installation of Digimax Reader. Press the next button.

[Click !]

15. The Software License Agreement window will be displayed. If you agree to this, click [Yes], the window will then move to the next step. If you disagree, click [No] and the installation program will be cancelled.


InstallShield Wizard
InstallShield
< Back
Yes
No

License Agreement

Please read the following license agreement carefully.

Press the PAGE DOWN key to see the rest of the agreement.

Software creation requires great effort that you can hardly imagine.
Digimax Reader is the result of 12-year effort by the Company.
Please, be sure to read this license agreement.

1. Right of Use

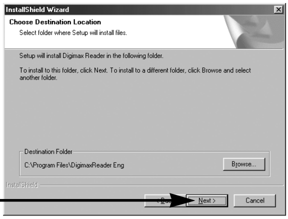
Digimax Reader can be used on a single unit of computer, that is, you may not use is over a network or via other devices.

Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install Digimax Reader, you must accept this agreement.

[Click !]

Setting up the application software

16. A destination selection window will open.
    Click the [Next >] button.
    To copy the files to another folder, click [Browse...] and choose a folder you want.



InstallShield Wizard

Choose Destination Location

Select folder where Setup will install files.

Setup will install Digimax Reader in the following folder.

To install to this folder, click Next. To install to a different folder, click Browse and select another folder.

Destination Folder

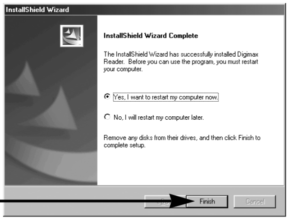
C:\Program Files\DigimaxReader Eng

Browse...
InstallShield
< Back
Next >
Cancel

[Click !]

17. Digimax Reader Installation is completed.
    The system will not reboot even if the [Yes, I want to restart the computer now] option is selected.

※ The screen shot of step 17 can be different from the illustration depending on the system requirements.



InstallShield Wizard

InstallShield Wizard Complete

The InstallShield Wizard has successfully installed Digimax Reader. Before you can use the program, you must restart your computer.

● Yes, I want to restart my computer now.

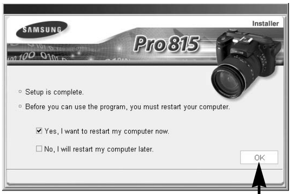
○ No, I will restart my computer later.

Remove any disks from their drives, and then click Finish to complete setup.

< Back
Finish
Cancel

[Click !]

18. To apply changes, you must restart the computer.
    Select [Yes, I want to restart my computer now], and then click the [OK] button.



Installer
SAMSUNG
Pro815

Setup is complete.

Before you can use the program, you must restart your computer.

☑ Yes, I want to restart my computer now.

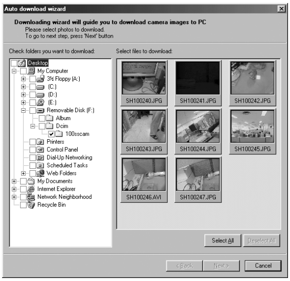
☐ No, I will restart my computer later.

OK

[Click !]

19. After restarting the computer, connect the PC to the camera with the USB cable.

20. Turn the camera power on.
    The [Found New Hardware Wizard] will open and the computer will recognise the camera.
    * If your OS is Windows XP, an image viewer program will open.
    If the download window of Digmax Master opens after starting Digimax Master, the camera driver was setup successfully.



Auto download wizard

Downloading wizard will guide you to download camera images to PC

Please select photos to download.

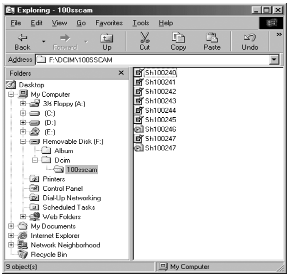
To go to next step, press 'Next' button

Check folders you want to download:

Select files to download:

Desktop
My Computer
3½ Floppy (A:)
(C:)
(D:)
(E:)
Removable Disk (F:)
Album
Dcim
100sscam
Printers
Control Panel
Dial-Up Networking
Scheduled Tasks
Web Folders
My Documents
Internet Explorer
Network Neighborhood
Recycle Bin
SH100240.JPG
SH100241.JPG
SH100242.JPG
SH100243.JPG
SH100244.JPG
SH100245.JPG
SH100246.AVI
SH100247.JPG
Select All
Deselect All
< Back
Next >
Cancel

21. If you can see [Removable Disk] under [My computer], the camera driver installation was successful.
    Now you can transfer image files from the camera to PC via the USB cable.


Exploring - 100sscam
File Edit View Go Favorites Tools Help
Back
Forward
Up
Cut
Copy
Paste
Undo
Address F:\DCIM\100SSCAM
Folders
Desktop
My Computer
3½ Floppy (A:)
(C:)
(D:)
(E:)
Removable Disk (F:)
Album
Dcim
100sscam
Printers
Control Panel
Dial-Up Networking
Scheduled Tasks
Web Folders
My Documents
Internet Explorer
Network Neighborhood
Recycle Bin
Sh100240
Sh100241
Sh100242
Sh100243
Sh100244
Sh100245
Sh100246
Sh100247
Sh100247
9 object(s)
My Computer

INFORMATION

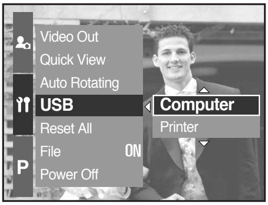
- If you have installed the camera driver, The [Found New Hardware Wizard] may not open.
- On a Windows 98 or 98 SE system, the Found New Hardware Wizard dialog box opens and a window asking you to select a driver file may appear. In this case, specify "USB Driver" in the CD supplied. (for Windows 98 and 98 SE).
- Before connecting the camera to the PC, You should first install the camera driver.
- After installing the camera driver, you have to restart your PC.
- If you connect the camera to the PC before installing the camera driver, the [Found New Hardware Wizard] will open.
  In this case, cancel the [Found New Hardware Wizard] and disconnect the camera. Install the camera driver and connect the camera to the PC again.
- Should the computer not find the camera driver after installation, please try one or more of the following measures.
  1. Delete the camera driver (p.147), and re-install the driver.
  2. Refer to FAQ (p.160) to check for a possible solution to the problem.
  3. If your PC’s central processing unit is VIA chip (This is shown in the USB Host Controller), download the patch file from the Samsung Camera web page. (http://www.samsungcamera.com)

Starting PC mode

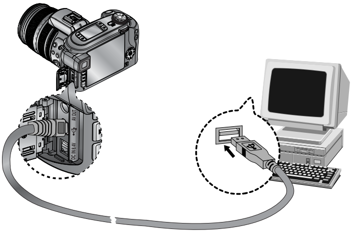
- If you connect the USB cable to a USB port on your PC and then turn on the power, the camera will automatically switch to "computer connection mode".
- In this mode, you can download stored images to your PC through the USB cable.
- The LCD monitor is always turned off in PC mode.
- The Card in use lamp will blink when the files are transferring via the USB connection.

■ Connecting the camera to a PC

1. Turn the PC power on.
2. Turn the camera power on.
3. Press the Menu button and select the [🛠] menu tab.
4. Press the Right button and select the [USB] menu by pressing the Up/ Down button.
5. Press the Right button and select a desired sub menu by pressing the Up/ Down button.
6. Select the [Computer] menu and press the OK button.
7. Connect the PC and the camera via the USB cable.
   - Insert the small plug of the USB cable into the camera USB connection terminal.
   - Insert the large connector of the USB cable into the USB port of the PC.
   - The plugs must be firmly inserted.



※ If you selected [Printer] in Step 6, when you connect the camera to your computer, the [Connecting Printer] message will be displayed on the LCD monitor and the connection will not be established. In this case, disconnect the USB cable, and then follow the procedure from Step 3 and onward.



■ Disconnecting the camera and PC : Refer to page 150 (Removing the removable disk).

INFORMATION

- ● The camera driver must be installed before using PC mode.
- ● To save battery power, it is recommended that you use an AC adapter (Optional) when connecting the camera to a computer.

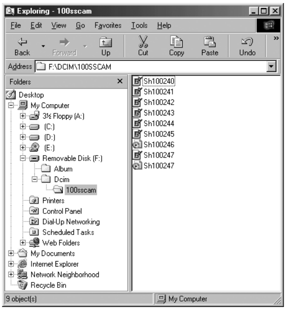
Starting PC mode

- Downloading stored images

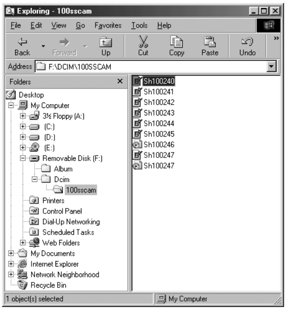
  You can download the still images stored on the camera to your PC's hard disk and print them or use a photo editing software to edit them.

1. Connect the camera to your PC with the USB cable.

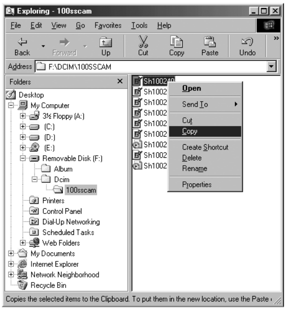
2. On your computer's desktop display, select [My computer] and double click [Removable Disk → DCIM → 100SSCAM].
   The image files will then be displayed.


Exploring - 100sscam
File Edit View Go Favorites Tools Help
Back Forward Up Cut Copy Paste Undo
Address F:\DCIM\100SSCAM
Folders
Desktop
My Computer
3½ Floppy (A:)
(C:)
(D:)
(E:)
Removable Disk (F:)
Album
Dcim
100sscam
Printers
Control Panel
Dial-Up Networking
Scheduled Tasks
Web Folders
My Documents
Internet Explorer
Network Neighborhood
Recycle Bin
Sh100240
Sh100241
Sh100242
Sh100243
Sh100244
Sh100245
Sh100246
Sh100247
Sh100247
9 object(s)
My Computer

3. Select an image and press the right mouse button.


Exploring - 100sscam
File Edit View Go Favorites Tools Help
Back Forward Up Cut Copy Paste Undo
Address F:\DCIM\100SSCAM
Folders
Desktop
My Computer
3½ Floppy (A:)
(C:)
(D:)
(E:)
Removable Disk (F:)
Album
Dcim
100sscam
Printers
Control Panel
Dial-Up Networking
Scheduled Tasks
Web Folders
My Documents
Internet Explorer
Network Neighborhood
Recycle Bin
Sh100240
Sh100241
Sh100242
Sh100243
Sh100244
Sh100245
Sh100246
Sh100247
Sh100247
1 object(s) selected
My Computer

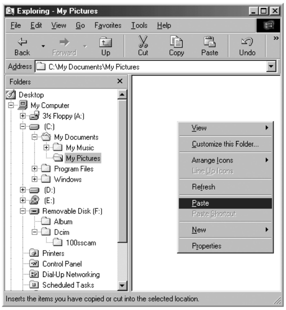
4. A pop-up menu will open.
   Click the [Cut] or [Copy] menu.
   - [Cut] : cuts a selected file.
   - [Copy] : copies files.


Exploring - 100sscam
File Edit View Go Favorites Tools Help
Back Forward Up Cut Copy Paste Undo
Address F:\DCIM\100SSCAM
Folders
Desktop
My Computer
3½ Floppy (A:)
(C:)
(D:)
(E:)
Removable Disk (F:)
Album
Dcim
100sscam
Printers
Control Panel
Dial-Up Networking
Scheduled Tasks
Web Folders
My Documents
Internet Explorer
Network Neighborhood
Recycle Bin
Sh100240
Sh1002
Open
Send To
Cut
Copy
Create Shortcut
Delete
Rename
Properties

Copies the selected items to the Clipboard. To put them in the new location, use the Paste

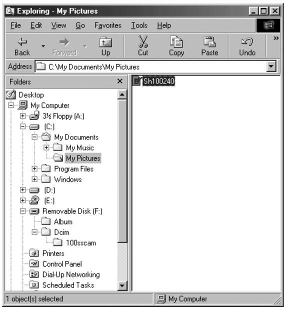
5. Click a folder where you want to paste the file.

6. Press the right mouse button and a pop-up menu will open. Click [Paste].


Exploring - My Pictures
File Edit View Go Favorites Tools Help
Back Forward Up Cut Copy Paste Undo
Address C:\My Documents\My Pictures
Folders
Desktop
My Computer
3½ Floppy (A:)
(C:)
My Documents
My Music
My Pictures
Program Files
Windows
(D:)
(E:)
Removable Disk (F:)
Album
Dcim
100sscam
Printers
Control Panel
Dial-Up Networking
Scheduled Tasks
View
Customize this Folder...
Arrange Icons
Line Up Icons
Refresh
Paste
Paste Shortcut
New
Properties

Inserts the items you have copied or cut into the selected location.

7. An image file is transferred from the camera to your PC.


Exploring - My Pictures
File Edit View Go Favorites Tools Help
Back Forward Up Cut Copy Paste Undo
Address C:\My Documents\My Pictures
Folders
Sh100240
Desktop
My Computer
3½ Floppy (A:)
(C:)
My Documents
My Music
My Pictures
Program Files
Windows
(D:)
(E:)
Removable Disk (F:)
Album
Dcim
100sscam
Printers
Control Panel
Dial-Up Networking
Scheduled Tasks
My Computer

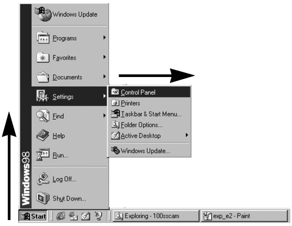
1 object(s) selected

- By using [Digimax Master], you can see the stored images in the memory directly on the PC monitor and you can copy or move the image files.

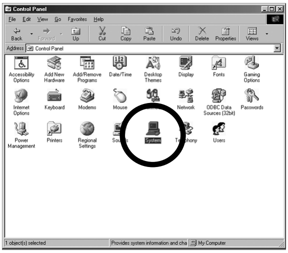
Removing the USB Driver for Windows 98SE

- To remove the USB driver, refer to the process shown below.

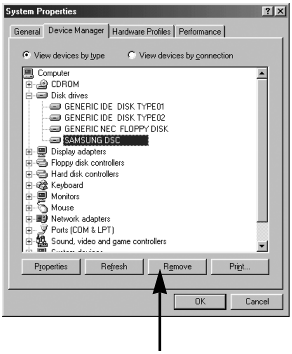
1. Click [Start → Settings] and click [Control Panel].


Windows Update
Programs
Favorites
Documents
Settings
Find
Help
Run...
Log Off...
Shut Down...
Control Panel
Printers
Taskbar & Start Menu...
Folder Options...
Active Desktop
Windows Update...
Windows98
Start
Exploring - 100sscam
exp_e2 - Paint

2. Double-click [System].

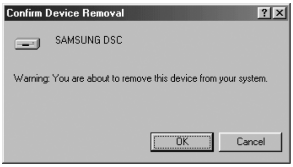

Control Panel
File Edit View Go Favorites Help
Back Forward Up Cut Copy Paste Undo Delete Properties Views
Address Control Panel
Accessibility Options
Add New Hardware
Add/Remove Programs
Date/Time
Desktop Themes
Display
Fonts
Gaming Options
Internet Options
Keyboard
Modems
Mouse
Network
ODBC Data Sources (32bit)
Passwords
Power Management
Printers
Regional Settings
Sounds
System
Telephony
Users
1 object(s) selected
Provides system information and cha
My Computer

3. Select [Device manager → Hard Disk Controller → Samsung Digital Camera] and click the [Remove] button.


System Properties
General
Device Manager
Hardware Profiles
Performance
View devices by type
View devices by connection
Computer
CDROM
Disk drives
GENERIC IDE DISK TYPE01
GENERIC IDE DISK TYPE02
GENERIC NEC FLOPPY DISK
SAMSUNG DSC
Display adapters
Floppy disk controllers
Hard disk controllers
Keyboard
Monitors
Mouse
Network adapters
Ports (COM & LPT)
Sound, video and game controllers
Properties
Refresh
Remove
Print...
OK
Cancel

[Click !]

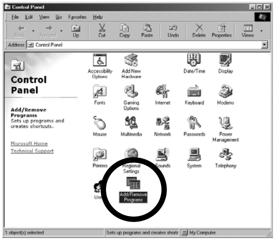
4. Click the [OK] button.
   The camera is removed from the system.


Confirm Device Removal
SAMSUNG DSC
OK
Cancel

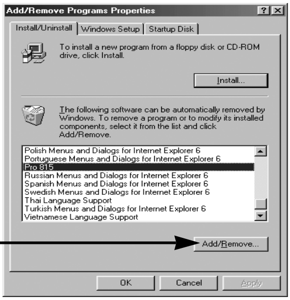
Warning: You are about to remove this device from your system.

Removing the USB Driver for Windows 98SE

5. Trace [Start → Settings → Control Panel] and double click [Add/Remove programs].


Control Panel
File Edit View Go Favorites Help
Back Forward Up Cut Copy Paste Undo Delete Properties Views
Address Control Panel
Control Panel
Add/Remove Programs
Sets up programs and creates shortcuts.
Microsoft Home
Technical Support
Accessibility Options
Add New Hardware
Date/Time
Display
Fonts
Gaming Options
Internet
Keyboard
Modems
Mouse
Multimedia
Network
Passwords
Power Management
Printers
Regional Settings
Sounds
System
Telephony
Add/Remove Programs
1 object(s) selected
Sets up programs and creates short
My Computer

6. The [Add/Remove Programs Properties] window will open. Click [Pro 815] and click the [Add/Remove] button.


Add/Remove Programs Properties
Install/Uninstall
Windows Setup
Startup Disk
Install...
Add/Remove...
OK
Cancel
Apply

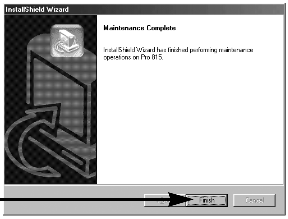
To install a new program from a floppy disk or CD-ROM drive, click Install.

The following software can be automatically removed by Windows. To remove a program or to modify its installed components, select it from the list and click Add/Remove.

Polish Menus and Dialogs for Internet Explorer 6
Portuguese Menus and Dialogs for Internet Explorer 6
Pro 815
Russian Menus and Dialogs for Internet Explorer 6
Spanish Menus and Dialogs for Internet Explorer 6
Swedish Menus and Dialogs for Internet Explorer 6
Thai Language Support
Turkish Menus and Dialogs for Internet Explorer 6
Vietnamese Language Support

[Click !]

7. Uninstallation is complete. Click the [Finish] button and the window will disappear.


InstallShield Wizard
Back
Finish
Cancel

Maintenance Complete

InstallShield Wizard has finished performing maintenance operations on Pro 815.

[Click !]

Removable Disk

- To use this camera as a Removable Disk, install (p.138) the USB Driver.

1. Before turning the camera power on, connect the camera to the PC with the USB cable.

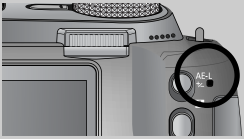
2. Click [Removable Disk] under [My Computer] or [Windows Explorer].

3. Image files stored in the Removable Disk (DCIM → 100SSCAM) can be transferred to the PC.

INFORMATION

Important information whilst using the Removable Disk

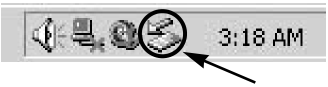
- The [Removable Disk] indicator will not show when the camera power is off or the USB cable is removed.
- We recommend that you should copy the images to the PC to view them. Opening images directly from the removable disk may be subject to unexpected disconnection.
- When uploading images from the PC to the camera, ensure that the uploaded file names are not the same as those already stored on the memory.
- When you upload a file that is not taken by this camera to the Removable Disk, the [File Error!] message will be displayed on the LCD monitor in the PLAY mode, and nothing is displayed in THUMBNAIL mode.
- The Card in use lamp will blink, when a file is transferred (copy or deletion) between the PC and the camera. Do not remove the USB cable until the lamp stops blinking. To remove the USB cable in Windows 2000/ME/XP, use the [Unplug or Eject Hardware] icon on the task bar.



Removing the removable disk

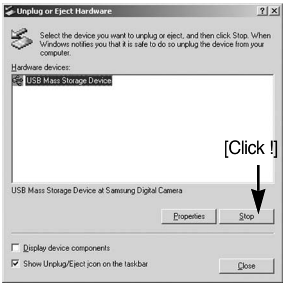
- Windows 98/98SE
  1. Check whether the camera and PC is transferring a file. If the Card in use lamp blinks, you have to wait until the lamp is turned off.
  2. Unplug the USB cable.

- Windows 2000/ME/XP
  (The illustrations may be different from the real display in accordance with the Windows O/S.)
  1. Check whether the camera and PC is transferring a file. If the Card in use lamp blinks, you have to wait until the lamp is turned off.
  2. Double-click the [Unplug or Eject Hardware] icon on the task bar.



[Double-click!]

  3. The [Unplug or Eject Hardware] window will open. Select the [USB Mass Storage Device] and click the [Stop] button.


Unplug or Eject Hardware
?
Hardware devices:
USB Mass Storage Device
Properties
Stop
Close

Select the device you want to unplug or eject, and then click Stop. When Windows notifies you that it is safe to do so unplug the device from your computer.

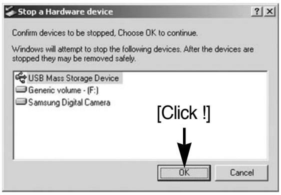
USB Mass Storage Device at Samsung Digital Camera

☐ Display device components

☑ Show Unplug/Eject icon on the taskbar

[Click !]

  4. The [Stop a Hardware device] window will open. Select the [USB Mass Storage Device] and click the [OK] button.

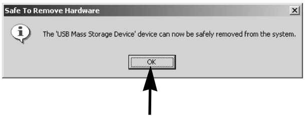

Stop a Hardware device
?
USB Mass Storage Device
Generic volume - (F:)
Samsung Digital Camera
OK
Cancel

Confirm devices to be stopped, Choose OK to continue.

Windows will attempt to stop the following devices. After the devices are stopped they may be removed safely.

[Click !]

  5. A [Safe to Remove Hardware] window will open. Click the [OK] button.

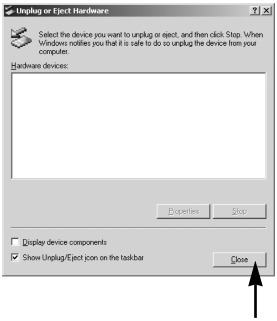

Safe To Remove Hardware
OK

The 'USB Mass Storage Device' device can now be safely removed from the system.

[Click !]

Removing the removable disk

6. A [Unplug or Eject Hardware] window will open. Click the [Close] button and the removable disk will be removed safely.



Select the device you want to unplug or eject, and then click Stop. When Windows notifies you that it is safe to do so unplug the device from your computer.

☐ Display device components

☑ Show Unplug/Eject icon on the taskbar

[Click !]

7. Unplug the USB cable.

Setting up the USB Driver for MAC

1. A USB Driver for MAC is not included with the software CD as MAC OS supports the camera driver.
2. Check the MAC OS. This camera is compatible with MAC OS 10.0 or later.
3. Connect the camera to the Macintosh and turn the camera power on.
4. A new icon will be displayed on the desktop after connecting the camera to the MAC.

Using the USB Driver for MAC

1. Double click a new icon on the desktop and the folder in the memory will be displayed.

2. Select an image file and copy or move it to MAC.

CAUTION

- For Mac OS 10.0 or later : First complete uploading from computer to camera and then remove the removable disk with the Extract command.

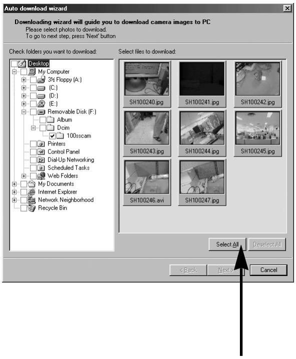
Digimax Master

- You can download, view, edit and save your digital images and movies with this software. This software is only compatible with Windows except for the Windows 98.
- To start the program, click [Start → Programs → Samsung → Digimax Master].

● Downloading images

1. Connect the camera to your PC.

2. A window for downloading images will display after connecting the camera and your PC.
   - To download the captured images, select the [Select All(A)] button.
   - Select desired folder in the window and click the [Select All(A)] button. You can save captured images and selected folder.
   - If you click the [Cancel] button, downloading will be cancelled.



Auto download wizard

Downloading wizard will guide you to download camera images to PC

Please select photos to download.
To go to next step, press 'Next' button

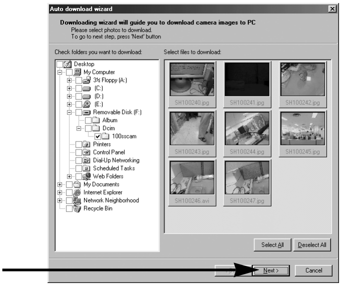
Check folders you want to download:

Select files to download:

Desktop
My Computer
3½ Floppy (A:)
(C:)
(D:)
(E:)
Removable Disk (F:)
Album
Dcim
☑ 100sscam
Printers
Control Panel
Dial-Up Networking
Scheduled Tasks
Web Folders
My Documents
Internet Explorer
Network Neighborhood
Recycle Bin
SH100240.jpg
SH100241.jpg
SH100242.jpg
SH100243.jpg
SH100244.jpg
SH100245.jpg
SH100246.avi
SH100247.jpg
Select All
Deselect All
< Back
Next >
Cancel

[Click !]

3. Click [Next(N) >] button.



Auto download wizard

Downloading wizard will guide you to download camera images to PC

Please select photos to download.
To go to next step, press 'Next' button

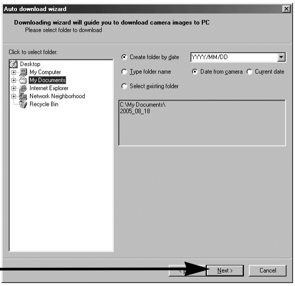
Check folders you want to download:

Select files to download:

Desktop
My Computer
3½ Floppy (A:)
(C:)
(D:)
(E:)
Removable Disk (F:)
Album
Dcim
☑ 100sscam
Printers
Control Panel
Dial-Up Networking
Scheduled Tasks
Web Folders
My Documents
Internet Explorer
Network Neighborhood
Recycle Bin
SH100240.jpg
SH100241.jpg
SH100242.jpg
SH100243.jpg
SH100244.jpg
SH100245.jpg
SH100246.avi
SH100247.jpg
Select All
Deselect All
Next >
Cancel

[Click !]

4. Select a destination and make a folder to save downloaded images and folders.
   - Folders will be made in order of date and images will be downloaded.
   - Folder names can be made as you want and images will be downloaded.
   - After selecting a folder that was made before, images will be downloaded.



Auto download wizard

Downloading wizard will guide you to download camera images to PC

Please select folder to download

Click to select folder:

● Create folder by date: YYYY/MM/DD

○ Type folder name

● Date from camera ○ Current date

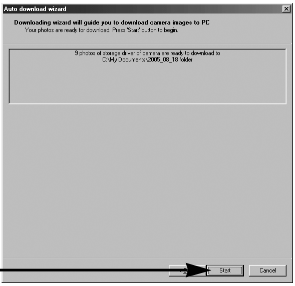
○ Select existing folder

C:\My Documents\
2005_08_18

[Click !]

5. Click [Next(N) >] button.

6. A window will open as shown alongside.
   The destination of the selected folder will be displayed on the upper side of the window.
   Click the [Start] button to download the images.



Auto download wizard

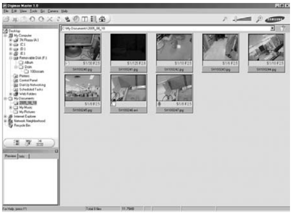
Downloading wizard will guide you to download camera images to PC

Your photos are ready for download. Press 'Start' button to begin.

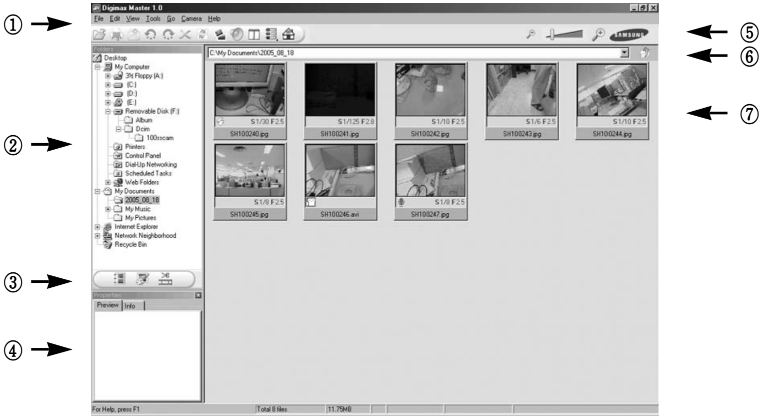
9 photos of storage driver of camera are ready to download to
C:\My Documents\2005_08_18 folder

[Click !]

7. Downloaded images will be displayed.



- Image viewer : You can view the stored images.


①
②
③
④
⑤
⑥
⑦
Digimax Master 1.0
File Edit View Tools Go Camera Help
Folders
Desktop
My Computer
3½ Floppy (A:)
(C:)
(D:)
(E:)
Removable Disk (F:)
Album
Dcim
100sscam
Printers
Control Panel
Dial-Up Networking
Scheduled Tasks
Web Folders
My Documents
2005_08_18
My Music
My Pictures
Internet Explorer
Network Neighborhood
Recycle Bin
Properties
Preview
Info
C:\My Documents\2005_08_18
S1/30 F2.5 SH100240.jpg
S1/125 F2.8 SH100241.jpg
S1/10 F2.5 SH100242.jpg
S1/6 F2.5 SH100243.jpg
S1/10 F2.5 SH100244.jpg
S1/8 F2.5 SH100245.jpg
SH100246.avi
S1/8 F2.5 SH100247.jpg
For Help, press F1
Total 8 files
11.75MB

- Image viewer functions are listed below.

① Menu bar : You can select menus.
File, Edit, View, Tools, Change functions, Auto download, help, etc.

② Image selection window : You can select the desired images in this window.

③ Media type selection menu : You can select image viewer, image edit, movie edit functions in this menu.

④ Preview window : You can preview a image or a movie clip and check the multi media information.

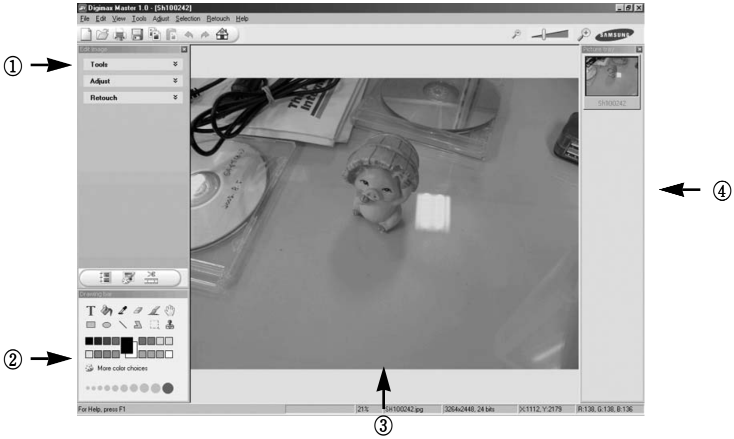
⑤ Zoom bar : You can change preview size.

⑥ Folder display window : You can see the folder location of the selected image.

⑦ Image display window : Images of the selected folder are displayed.

※ Refer to the [Help] menu in Digimax Master for further information.

- Image edit : You can edit the still image.


Digimax Master 1.0 - [Sh100242]
File Edit View Tools Adjust Selection Retouch Help
SAMSUNG
Edit image
Tools
Adjust
Retouch
Drawing bar
T
More color choices
Picture tray
Sh100242
For Help, press F1
21%
SH100242.jpg
3264x2448, 24 bits
X:1112, Y:2179
R:138, G:138, B:136
①
②
③
④

- Image edit functions are listed below.

  ① Edit menu : You can select the following menus.

    [Tools] : You can resize or crop the selected image. See the [Help] menu.

    [Adjust] : You can modify image quality. See the [Help] menu.

    [Retouch] : You can change image or insert effects on the image. See the [Help] menu.

  ② Drawing tools : Tools for editing an image.

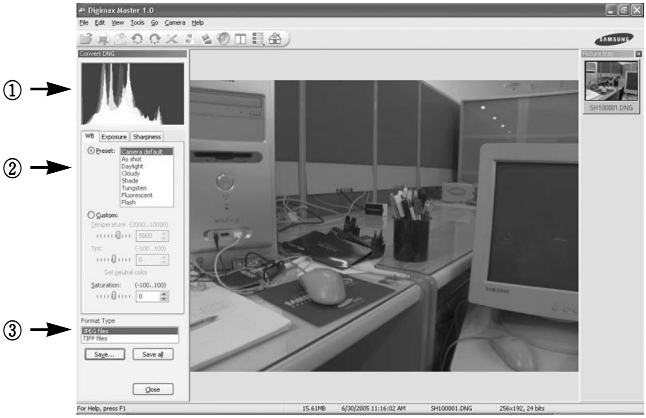
  ③ Image display window : a selected image displays in this window.

  ④ Preview window : You can preview the changed image.

※ A still image edited with Digimax Master can't be played back on the camera.

※ Refer to the [Help] menu in Digimax Master for further information.

- DNG converter : You can convert a RAW (*.dng) file into a JPEG or TIFF file format.


①
②
③
Digimax Master 1.0
File Edit View Tools Go Camera Help
SAMSUNG
Convert DNG
WB Exposure Sharpness
Preset:
Camera default
As shot
Daylight
Cloudy
Shade
Tungsten
Fluorescent
Flash
Custom:
Temperature: (2000..10000)
5800
Tint: (-100..100)
0
Set neutral color
Saturation: (-100..100)
0
Format Type
JPEG files
TIFF files
Save...
Save all
Close
Picture tray
SH100001.DNG
For Help, press F1
15.61MB
6/30/2005 11:16:02 AM
SH100001.DNG
256x192, 24 bits

- DNG converter functions are listed below.

① Histogram display : Histogram of displayed image will be displayed.

② Tools : You can edit the RAW (*.dng) files as you want

[White Balance] : You can edit the colour temperature and saturation of the image.

[Exposure] : You can edit the Exposure value, Contrast and gamma value.

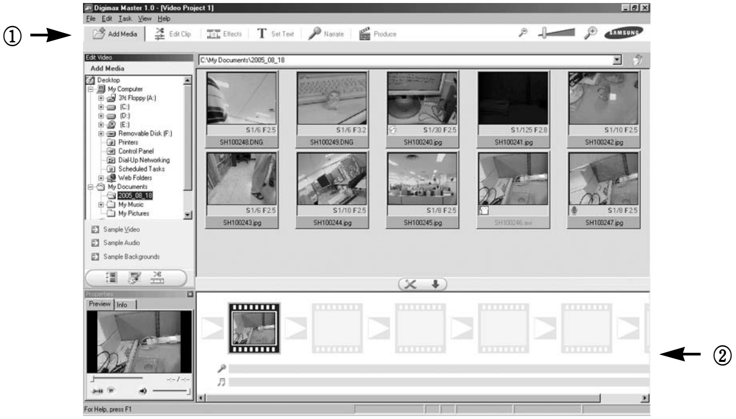
[Sharpness] : You can edit the Sharpness of the image.

③ File format : You can convert the RAW (*.dng) file into a file format as you want (*.jpg, *.tiff, etc.).

※ Refer to the [Help] menu in Digimax Master for further information.

Digimax Master

- Movie edit : You can have still images, movies, narration and music all in one movie file.


①
Digimax Master 1.0 - [Video Project 1]
File Edit Task View Help
Add Media
Edit Clip
Effects
Set Text
Narrate
Produce
Edit Video
Add Media
C:\My Documents\2005_08_18
Sample Video
Sample Audio
Sample Backgrounds
Preview
Info
For Help, press F1
②

- Movie clip edit functions are listed below.

① Edit menu : You can select the following menus.

[Add Media] : You can add other media elements to a movie.

[Edit Clip] : You can change the brightness, contrast, colour and saturation.

[Effects] : You can insert an effect.

[Set Text] : You can insert texts.

[Narrate] : You can insert a narration.

[Produce] : You can save the edited multi media as a new file name.
You can select AVI, Windows media (wmv), Windows media (asf) and movie clip for this camera (avi, MPEG-4) file types.

② Frame display window : You can insert multi media in this window.

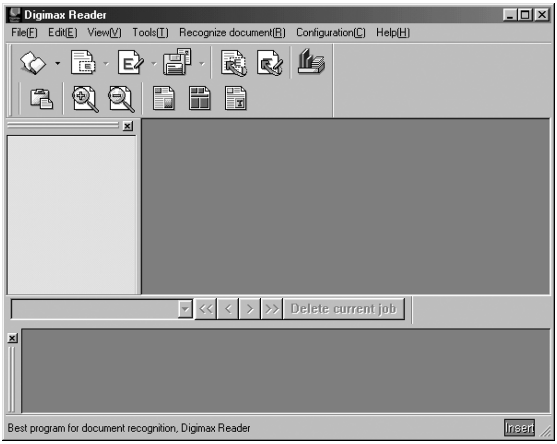
※ Some movie clips that was compressed with a codec that is not compatible with the Digimax Master can't play back in the Digimax Master.

※ Refer to the [Help] menu in Digimax Master for further information.

Digimax Reader

- Digimax Reader is a Text recognition program. You can save an image file that is captured in the Text mode, as a text file with this program.
  This software is only compatible with Windows.

- To start the program, click [Start → Programs → Digimax Reader].
  The following screen will appear.

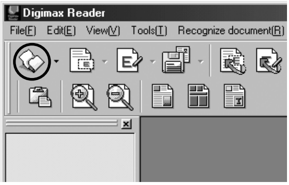

Digimax Reader
File(F) Edit(E) View(V) Tools(T) Recognize document(R) Configuration(C) Help(H)
<< < > >> Delete current job
Insert

Best program for document recognition, Digimax Reader

- How to use the Digimax Reader
  1. Connect the camera and the PC with a USB cable and download the images that were stored in the camera to the PC.
  * Please see page 145~146, 152~153 for details on Connecting a camera and PC, Downloading images.

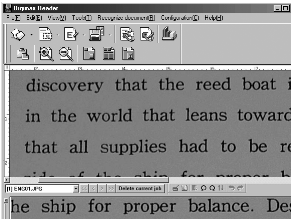
  2. Run the Digimax Reader.

  3. Click the Open( ) icon as shown alongside.


Digimax Reader
File(F) Edit(E) View(V) Tools(T) Recognize document(R)

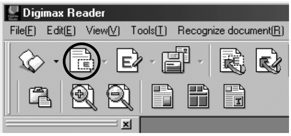
Digimax Reader

4. Select the image you want to save as a text file.
   * Only an image that was taken with a SAMSUNG camera can be opened.

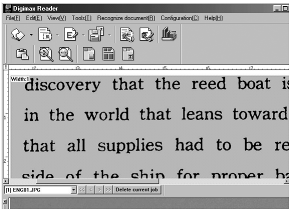

Digimax Reader
File(F) Edit(E) View(V) Tools(T) Recognize document(R) Configuration(C) Help(H)
(1) ENG01.JPG
Delete current job

discovery that the reed boat
in the world that leans toward
that all supplies had to be
he ship for proper balance. De

5. Click the Area Analysis( ) icon to scan the image.

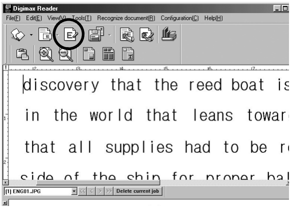

Digimax Reader
File(F) Edit(E) View(V) Tools(T) Recognize document(R)

6. Part of the image you selected will be displayed as shown.


Digimax Reader
File(F) Edit(E) View(V) Tools(T) Recognize document(R) Configuration(C) Help(H)
Width:1
(1) ENG01.JPG
Delete current job

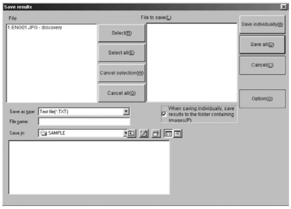
discovery that the reed boat
in the world that leans toward
that all supplies had to be

7. Click the Character Recognition( ) icon.
   The part selected in the previous step will be recognized as text.


Digimax Reader
File(F) Edit(E) View(V) Tools(T) Recognize document(R) Configuration(C) Help(H)
(1) ENG01.JPG
Delete current job

discovery that the reed boat
in the world that leans towar
that all supplies had to be

8. To save the section as a text, click the Save( ) icon. A window as shown alongside will be displayed.


Save results
File
1.ENG01.JPG - discovery
File to save(L)
Select(R)
Select all(E)
Cancel selection(W)
Cancel all(G)
Save individually(A)
Save all(Q)
Cancel(C)
Option(O)
Save as type
Text file(*.TXT)
File name
Save in
SAMPLE
When saving individually, save results to the folder containing images(P)

9. Select the file type that you want.
   Selectable file types : *.TXT, *.HWP, *.DOC, *.RTF

INFORMATION

- To get an image that can be recognized as a text :
  - Keep a distance that you can capture the image clearly between the subject and the camera.
  - The subject need to be centered.
  - Avoid camera shake to get a good image.
- Refer to the [Help] menu in Digimax Reader for further information.

FAQ

■ Please check the following if the USB connection malfunctions.

[Case 1] The camera power is off.
→ Turn the camera power on.

[Case 2] USB Driver is not installed correctly.
→ Install the USB Driver correctly. Refer to page 138.

[Case 3] The USB cable is not connected or you are using a cable with an incorrect specification.
→ Use a USB cable with the correct specification.

[Case 4] The camera is not recognized by your PC.
Sometimes, the camera may appear under [Unknown Devices] in Device Manager.
→ Install the camera driver correctly.
Turn off the camera, remove the USB cable, plug in the USB cable again, and then turn on the camera.

[Case 5] There is an unexpected error during file transfer

→ Turn the camera power off and on again. Transfer the file again.

[Case 6] How do I know my computer supports a USB Interface?

→ Check the USB port in your computer or keyboard.

→ Check the OS version. A USB Interface is available in Windows 98, 98SE, 2000, ME, XP.

→ Check [Universal Serial Bus controllers] in Device Manager. Do the following to checks [Universal Serial Bus controllers].

Win 98/ME	: Follow [Start → Settings → Control Panel → System → Device Manager → Universal Serial Bus controllers].
Win 2000	: Follow [Start → Settings → Control Panel → System → Hardware → Device Manager → Universal Serial Bus controllers].
Win XP	: Follow [Start → Control Panel → Performance and Maintenance → System → Hardware → Device Manager → Universal Serial Bus controllers].

There must be USB Host Controller and USB root hub under [Universal Serial Bus controllers].

In addition, double-click on the USB Universal Host Controller and the USB Root Hub to check if the Device Status states "This device is working properly". If the Device Status says the device is "not working properly", click the "Driver" tab and then click [Update Driver] or [Reinstall Driver].

→ When all the conditions mentioned above are met, the computer can support the USB interface.

[Case 7] When using the USB hub.

→ There may be a problem in connecting the camera to the PC through the USB hub if the PC and the hub are not compatible. Wherever possible, connect the camera to the PC directly.

[Case 8] Are other USB cables connected to the PC?

→ The camera may malfunction when it is connected to the PC at the same time as another USB cable. In this case, disconnect the other USB cable, and connect only one USB cable to the camera.

[Case 9] When I open the Device Manager (by clicking Start → (Settings) → Control Panel → (Performance and Maintenance) → System → (Hardware) → Device Manager), there are「Unknown Devices」or「Other Devices」entries with a yellow question mark (?) beside them or devices with an exclamation mark (!) beside them.

→ Right-click on the entry with the question (?) or exclamation (!) mark and select "Remove". Restart the PC and connect the camera the again. For Windows 98 PC, remove the camera driver also, restart the PC, and then reinstall the camera driver.

→ Double-click on the entry with the question (?) or exclamation (!) mark, click the "Driver" tab, and click [Update Driver] or [Reinstall Driver]. If a message appears asking you to specify the location of the appropriate device driver, specify "USB Driver" in the CD supplied.

[Case 10] In some security programs (Norton Anti Virus, V3, etc.), the computer may not recognise the camera as a removable disk.

→ Stop the security programs and connect the camera to the computer. Refer to the security program instructions about how to stop the program.

■ When the movie clip doesn't play back on the PC

※ When the movie clip recorded by the camera doesn't play back on the PC, the causes are mostly due to the codec installed on the PC.

● When the DirectX 9.0 or later is not installed

→ Install the DirectX 9.0 or later

1) Insert the CD provided with the camera
2) Run the windows explorer and select [CD-ROM drive:\USB Driver\DirectX 9.0] folder and click the DXSETUP.exe file. The DirectX will be installed. Visit the following site for downloading the DirectX. http://www.microsoft.com/directx

FAQ

- If a PC (Windows 98) stops responding while the camera and PC are connected repeatedly

  → If a PC (Windows 98) is turned on for a long time and the camera is connected repeatedly the PC may not recognise the camera. In this case, re-start the PC.

- If a PC connected with the camera stops responding while Windows is starting.

  → In this case, disconnect the PC and the camera and Windows will start.
  If the problem happens continuously, set the Legacy USB Support to disable and re-start the PC. The Legacy USB Support is in the BIOS setup menu (The BIOS setup menu differs from the PC manufacturers and some BIOS menus don’t have Legacy USB Support). If you can’t change the menu by yourself, contact to the PC manufacturer or BIOS manufacturer.

- If the movie clip can’t be deleted, removable disk can’t be extracted or an error message displays during the file transfer.

  → If you install only the Digimax Master, the problems mentioned above occasionally happen.
  - Close the Digimax Master, program by clicking the Digimax Master icon on the Taskbar.
  - Install all the application programs included in the software CD.

SAMSUNG

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